# Supplemental Expert Report of Professor Kevin M. Murphy

(Jun. 21, 2013)

Attached as Appendix F to Expert Report of Kevin Murphy (Nov. 25, 2013)

REDACTED VERSION

### **APPENDIX F**

# UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF CALIFORNIA SAN JOSE DIVISION

IN RE HIGH-TECH EMPLOYER	Ξ
ANTITRUST LITIGATION	

Master Docket No. 11-CV-2509 LHK

THIS DOCUMENT RELATES TO:

ALL ACTIONS.

#### SUPPLEMENTAL EXPERT REPORT OF PROFESSOR KEVIN M. MURPHY

June 21, 2013

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#### I. INTRODUCTION

- 1. I have been asked by Counsel for Defendants to respond to the Supplemental Expert Report of Edward E. Leamer, Ph.D. ("Leamer Supplemental Report")<sup>1</sup> and to consider whether Dr. Leamer's analysis answers the Court's question whether "Defendants' salary structures were so rigid that compensation for employees with entirely different titles would necessarily move together through time such that a detrimental impact to an employee with one job title would necessarily result in an impact to other employees in entirely different jobs (i.e., that any impact would ripple across the entire salary structure)."<sup>2</sup> I have concluded that Dr. Leamer's report contains fundamental errors of economics and statistics, and provides no evidence that the Defendants had such rigid compensation structures that suppressing wages of some employees would necessarily suppress wages of all or nearly all members of the proposed class.
- 2. First, Dr. Leamer's analysis is based on averages of compensation by job titles and average compensation for all job titles in the proposed class. He does not analyze the compensation of individual employees, so he ignores differences in compensation and compensation changes among employees with the same job title. Thus, his analysis cannot demonstrate the first required link in his theory of how the challenged conduct had class-wide impact, *i.e.*, that a raise to employees who receive a cold call would increase compensation even to other employees with the same job title.
- 3. Second, correlations of average compensation by job title with overall average compensation for the proposed Technical Class cannot show that raises for some employees necessarily would result in raises for some or all.
- 4. Third, neither his correlation analysis nor his regression analysis can distinguish a "somewhat rigid" compensation structure from one that is not. In particular, Dr. Leamer falls victim to two well-known statistical fallacies in constructing his regression model. In combination, these two fallacies virtually guarantee that Dr. Leamer will obtain the type of

<sup>&</sup>lt;sup>1</sup> Supplemental Expert Report of Edward E. Leamer, May 10, 2013 ("Leamer Supplemental Report").

<sup>&</sup>lt;sup>2</sup> In Re: High-Tech Employee Antitrust Litigation, *Order Granting in Part, Denying in Part Motion for Class Certification* (April 5, 2013) ("Order") at 36.

regression results that he does, even if there is zero effect of an individual's pay on the pay of others.

- 5. Fourth, Dr. Leamer does not establish that the proposed class is properly defined.
- 6. Finally, Dr. Leamer did not address the Court's invitation to "improve the accuracy" of the Conduct Regression that he offers as evidence of "generalized" impact and damages, and thus did not respond to the lack of precision of his estimates.<sup>3</sup>

# II. THE VARIATION IN INDIVIDUAL COMPENSATION, WHICH DR. LEAMER'S ANALYSES IGNORE, SHOWS THAT A RAISE FOR ONE OR SOME DOES NOT NECESSARILY CAUSE A RAISE FOR ALL OR NEARLY ALL

7. The question that I consider relevant for evaluating the Court's concerns about Plaintiffs' claims is whether a change in compensation at one point in the compensation structure would cause a change in compensation for the class as a whole. This is different than whether average compensation for different job titles moves together, since co-movement could simply reflect the response to common factors that have nothing to do with Dr. Leamer's "sharing" theory. Co-movement, which is the focus of Dr. Leamer's empirical analysis, is not informative as to how compensation of different class members would differ absent the alleged cold-calling agreements. To illustrate the difference between correlation (or co-movement) and causation, the use of umbrellas and windshield wipers in a city are highly correlated, but neither causes the other. Rather, they are both caused by a common external factor: rain.

## A. Dr. Leamer Focuses on Correlations of Average Compensation for Job Titles with Overall Average Compensation and He Does Not Analyze the Substantial Variation in Compensation Changes for Individual Employees

8. Dr. Leamer's empirical analysis focuses on whether changes in average compensation for various job titles are correlated with movements in the average compensation level for the proposed class as a whole. He does not examine whether changes in compensation at the individual level, which is where the initial impact of any cold call would occur, necessarily cause

<sup>&</sup>lt;sup>3</sup> Order at 42-43 and fn. 15.

changes in compensation for all or nearly all employees in the same job title or for the proposed class as a whole.

- 9. Dr. Leamer offers no empirical evidence that demonstrates the type of propagation that Plaintiffs postulate—either across individuals within the same job title or across job titles. He acknowledged that the compensation data available to him could be studied at the individual level. But he chose to work with "title averages," claiming that "the individual data is likely to be dominated by forces that operate at the individual level" and that "[a]veraging across individuals in a title can average out the individual effects." However, it is precisely those forces and individual effects that determine whether, as the Court asked, "Defendants' salary structures were *so* rigid that compensation for employees with entirely different titles would necessarily move together through time such that a detrimental impact to an employee with one job title would necessarily result in an impact to other employees in entirely different jobs (*i.e.*, that any impact would ripple across the entire salary structure)."
- 10. The amount of variation in compensation of individual employees over time determines whether a firm has to adjust compensation of a large number of individuals if it chooses to increase the compensation of an individual who receives a cold call. If individual pay were always identical for individuals within a job title, or if compensation were determined by a fixed formula (e.g., based only on objective factors such as level of tenure in the job with no deviation permitted), then a change in compensation for one individual would require a change for other individuals in that same job (assuming that the firm does not respond when an individual receives a cold call by promoting her to a better paid job title). In contrast, if, as a regular matter, there is wide variation in compensation changes for individuals in the same job, one cannot presume (as Dr. Leamer appears to do) that an increase in compensation for one employee in response to a cold-call would cause an increase in compensation for all employees with the same job title, because the firm has sufficient flexibility to respond to outside pressure on compensation of a given individual (such as pressure resulting from a cold call) to adjust compensation for that employee without changing compensation for other employees, even those

<sup>&</sup>lt;sup>4</sup> Leamer Supplemental Report ¶19.

<sup>&</sup>lt;sup>5</sup> Order at 36.

in the same job title. For example, the firm can provide one-time retention bonuses or stock grants, increase base salary within the existing salary range for that title, or promote the individual to another job title with a higher salary. Moreover, the firm would have an incentive to respond in one of these other ways rather than adjust compensation broadly, since doing so would allow the firm to minimize its labor costs.

- 11. Data on compensation of individuals, which I discuss below, show that, consistent with that flexibility, there is substantial divergence in compensation of individuals within a job title. In particular, the Defendants routinely differentiate increases (and decreases) in pay across employees. Even within individual job titles, annual compensation changes at the individual level show a mixture of large and small increases and decreases at a given point in time. While compensation received by individual employees at a firm tends to be positively correlated over time, there is substantial individualization of pay.
- 12. The existence of positive correlations does not support Dr. Leamer's "sharing" theory, because it reflects the fact that there are many common factors that can cause similar adjustments in employee compensation firm wide. Dr. Leamer himself identifies such a factor when he argues that "the Pixar data are *contaminated* by very large bonuses for producers and directors in 2002 and 2006," although he fails to acknowledge that this type of "contamination" is exactly what his correlation analysis reflects. Similarly, Intel's decision to freeze salaries in 2009 is a common factor that would have affected compensation levels and changes in that year. Apple's tremendous success in recent years and Google's transformation from a relative newcomer to a well-established tech firm fall into a similar category. However, while compensation received by individual employees is affected by common factors, it also is affected by other factors that result in substantial "uncommon" changes over time.

 $<sup>^6</sup>$  Leamer Supplemental Report ¶67.

<sup>&</sup>lt;sup>7</sup> Agam Shah, "Intel Freezes Salaries from CEO on Down," Computerworld, March 23, 2009.

- B. There Is Sufficient Variation in Compensation Across Individuals With The Same Job Title That One Cannot Assume That Adjusting One Employee's Compensation Requires Adjusting Others
- 13. I performed several analyses to understand the extent to which compensation of individual employees moves together. Exhibit 1 displays the cumulative compensation histories for all employees within a single selected job title at each of the Defendants. These exhibits are meant simply to illustrate the type of variation in compensation of individual employees that is present throughout the data (and that I summarize more systematically in my subsequent exhibits).
- 14. Exhibit 1 shows that individuals who start with the same job title have very different cumulative changes in compensation over time, and can end up with very different compensation in 2010 compared to 2005. This substantial divergence in compensation over time is fully consistent with correlation levels that are "high." In other words, correlated time series can diverge substantially, and can have substantial year-to-year changes in levels.

<sup>&</sup>lt;sup>8</sup> I selected the job titles by restricting the data to class members who remained employed by the Defendant in that job title in each year from 2005 through 2010 (2006-2010 for Lucasfilm because its data did not include job titles before 2006). I then selected for each Defendant the job title that included 25 employees (or the closest number to 25) in order to have examples with as many employees as seemed reasonable to display graphically in a single chart. If more than one job title contained 25 employees, then I selected the first one ranked alphabetically.

<sup>&</sup>lt;sup>9</sup> According to Dr. Leamer, "A high positive correlation means that compensation of a title moves in a way that is similar to compensation in the rest of the Technical Class, thus supporting the conclusion that the title and the class have "coordinated" compensation levels, a fact which is consistent with sharing of gains and broad impact of the anti-cold-calling conspiracy whether it directly affects the title under study or the rest of the Technical Class" (Leamer Supplemental Report ¶51). I infer from this that Dr. Leamer considers his calculated correlations to be "high" and "positive."

<sup>&</sup>lt;sup>10</sup> I include individuals that change job titles in my analysis because moving an individual into a new job title (e.g., promoting him from a Software Engineer 3 to a Software Engineer 4) is one way in which a firm can increase an individual's compensation (in response to a cold call or otherwise) without adjusting the firm's compensation structure more broadly.

suffering large decreases (more than 25 percent). Taken together, Exhibit 2 and the summary statistics based on this type of analysis for more years and a larger number of jobs at each of the seven Defendant firms in Appendix B show that there is substantial room for a firm to adjust compensation differently for different individual employees, including those with the same job title, and that Defendants take advantage of this flexibility.

- 16. Exhibit 3 examines average annual changes in individuals' compensation between 2001 and 2011 after adjusting for individual characteristics (in effect, standardizing the changes across individuals by eliminating systematic impacts on compensation that reflect age, tenure, gender and job title). The differentiation summarized in this exhibit reflects the differences between the change in compensation for an individual and what would be predicted based on changes in the overall compensation structure and that individual's characteristics and job. A value of +10 percent indicates that the individual obtained an increase 10 percent greater than equivalent "peers," while -10 percent indicates that the individual received 10 percent less than equivalent peers. Again, the results show that Defendants exercise substantial flexibility in adjusting individual compensation, with a wide distribution of annual adjusted changes (shown in the exhibit as deviations from the average change for the year).
- 17. Exhibit 4 summarizes the data from Exhibit 3. I group the data into four categories by compensation change, and show in the exhibit the top and bottom 10 percent (deciles) and the top and bottom 25 percent (quartiles). The exhibit shows the large differences in compensation changes between employees with the lowest compensation changes and those with the highest compensation changes (after controlling for age, tenure, gender, and job title). For example, at Adobe, employees in the bottom decile of the distribution have annual compensation changes that are 29 percent below the average; employees in the top decile of the distribution have annual compensation changes that are 29 percent above the average. Thus, the difference in the compensation changes between these two groups is nearly 60 percent—the top group's annual compensation increase is, on average, 60 percent higher than the increase of the bottom group. Similarly, the difference in the compensation changes between the employees in the bottom

<sup>&</sup>lt;sup>11</sup> This comparison eliminates systematic effects, such as larger average increases for younger employees or for those with less tenure.

quartile at Adobe and those in the top quartile is almost 40 percent.<sup>12</sup> The large variation in compensation changes at Adobe, as well as at the other six Defendants, shows that there is ample room for a firm to adjust the compensation of one employee without adjusting the compensation of others.

18. Thus, Exhibits 1-4 show that the Defendant firms routinely adjust compensation at the individual level. As a result, there is sufficient variation in rates of compensation growth for individual employees, even within the same job title, that a firm can increase compensation of an employee who receives an outside offer without adjusting compensation of other employees with the same job title.<sup>13</sup>

# III. PROPERLY INTERPRETED, DR. LEAMER'S "CORRELATION" EVIDENCE SHOWS THAT LITTLE VARIATION IN AVERAGE JOB-LEVEL COMPENSATION IS "EXPLAINED" BY CHANGES IN CLASS-WIDE AVERAGE COMPENSATION

- 19. Dr. Leamer presents "correlations that compare the movement over time of the average compensation of each title with the average compensation of the firm's Technical Class," and claims that these calculations reveal a "large amount of co-movement of compensation among most of the Technical Class titles of each defendant." He claims that this co-movement is "consistent with a top-down budgeting method" and a "somewhat rigid' salary structure, which allows the effects of the anti-cold-calling conspiracy to spread broadly across each firm." <sup>15</sup>
- 20. However, whether the correlation evidence is "consistent with" his theory is only part of the issue that Dr. Leamer must address in order to support his theory. More relevant for purposes of understanding whether Plaintiffs' claims have merit is whether evidence of comovement is *inconsistent* with a compensation structure that is not rigid in the way that Dr. Leamer claims. The essence of hypothesis testing is not to provide evidence "consistent with" a

<sup>&</sup>lt;sup>12</sup> The difference between a 19 percent increase and a 19 percent decrease is 38 percent. In Exhibits 3-6, percent differences are defined as differences in logs.

<sup>&</sup>lt;sup>13</sup> Appendix A provides additional evidence, relied upon by Dr. Leamer in his Reply Report, of the dispersion of compensation changes for employees at Intel and Apple within a single job title.

<sup>&</sup>lt;sup>14</sup> Leamer Supplemental Report ¶4.

<sup>&</sup>lt;sup>15</sup> Leamer Supplemental Report ¶4.

hypothesis, but to offer evidence capable of rejecting that hypothesis if it were not true. Evidence that is equally consistent with the theory being true and the theory being false is not informative. Dr. Leamer's analysis fails to meet this essential principle of scientific methodology.

21. In the language of economics, Dr. Leamer implies that his correlations reflect causality<sup>16</sup> – that a change in one variable leads to or causes a change in the other – but he then offers only evidence of co-movement. However, correlation, or similar movement, in average job-title compensation does not establish the necessary causation to support Dr. Leamer's theory. Moreover, as I explain below, Dr. Leamer also overstates the similarity in movement and mischaracterizes the implications of the measured correlations.

### A. It is Deviations in Compensation, Not Correlations, that Matter for Evaluating Plaintiffs' Claims

- 22. Dr. Leamer does not explain what his correlation coefficients imply about his claim of a somewhat rigid compensation. Correlation measures the degree to which two series are linearly related to one another, <sup>17</sup> but not how much the two series deviate over time. There can be large deviations between the series, even though they have a "high" correlation coefficient. Economics tells us that what is relevant in understanding the rigidity of a firm's compensation structure is the extent to which compensation of alternative job titles deviate from one another, not whether they are weakly or strongly correlated. If they track closely, then the firm has exercised little scope to differentiate pay across job titles. If they diverge substantially, then the firm can and does differentiate pay across job titles. Even if, as Dr. Leamer claims, a "Large Share of [Job Title] Change Correlations are Positive," it does not follow that Defendants have compensation structures that require them to change compensation for all, or nearly all, class members if they raise one employee's compensation in response to a cold call.
- 23. Exhibit 5 shows the variation in annual changes in job-level average compensation after adjusting for individual characteristics (age, tenure, gender and job title) over the period 2001-

 $<sup>^{16}</sup>$  Leamer Supplemental Report ¶42, 46.

<sup>&</sup>lt;sup>17</sup> See, for example, George Casella and Roger L. Berger, Statistical Inference, 1990, pp. 160-168.

2011.<sup>18</sup> The exhibit shows that there is substantial variation in annual changes for all firms. This distribution of changes in job-level average compensation is summarized in Exhibit 6.<sup>19</sup> As I did in Exhibit 4 (which summarizes the employee-level changes), I group data into categories by compensation change to show the large differences between the jobs (weighted by the number of employee-years) with the largest compensation changes and those with the smallest compensation changes. Using Adobe as an example, the jobs in the top decile increased by 16 percent relative to the average, while the jobs with the largest negative deviations decreased by 15 percent relative to the average. Thus, the annual change in job average compensation at Adobe was about 30 percent higher in jobs in the top decile than in jobs in the bottom decile (after adjusting for differences in the characteristics of the employees in each job). Similarly, the changes in job average compensation at Adobe was almost 20 percent higher in jobs in the top quartile than in jobs in the bottom quartile. The variation in changes in job average compensation is largest for Google and Pixar and smallest for Intel, but is economically large for all Defendants.

24. Exhibits 7 and 8 extend the analysis of the top 25 job titles from my initial report (see Exhibit 18 in that report), where I showed that there was wide variation in annual compensation changes for these job titles. In Exhibit 7, I select a sample of the most common jobs that span across each of Dr. Leamer's deciles for each Defendant, and plot the annual changes in average compensation at each job.<sup>20</sup> The exhibits confirm that, rather than moving in lockstep, average

<sup>&</sup>lt;sup>18</sup> Data for Lucasfilm are limited to 2006-2011.

These calculations correct for the difference in individual characteristics across titles by using annual-level regressions of compensation changes on individual characteristics and fixed job effects. The job-level deviations are measured by the fixed job effects in these regressions. Correcting for individual characteristics makes very little difference to the results, but Dr. Leamer has expressed concern that variation in individual characteristics may be generating some of the variation over time in job-level compensation (Expert Report of Edward E. Leamer, Ph.D., October 1, 2012, ¶¶128-134). I also have calculated the same statistics without correcting for individual characteristics and obtain very similar results which support the same economic conclusions.

<sup>&</sup>lt;sup>20</sup> I select the jobs as follows. First, I take the top five jobs from each of the ten deciles at each Defendant. Because some deciles have fewer than five jobs, I have fewer than 50 jobs for most Defendants after this first step. Second, I take the next largest jobs (based on 2001-2011 employment, which is the same employment measure used by Dr. Leamer when constructing his deciles) until I have 50 jobs for each Defendant. Finally, when plotting the changes, I require the average number of employees across the two years for which I am calculating the change to be at least five. The number of jobs plotted ranges from 9 (at Google in 2002) to 50 (at Intel in years 2004 through 2011).

job-level compensation changes in any given year vary both in sign and magnitude, with some jobs seeing large increases, some large decreases and others smaller increases or decreases.<sup>21</sup>

25. Exhibit 8 extends the time period and looks at 2-, 3-, 4- and 5-year changes in average job-title compensation relative to 2005, rather than the sequence of annual changes.<sup>22</sup> Over longer time frames, compensation for the majority of jobs increased, which simply means that wage growth is greater over the long term than the short term. But a "somewhat rigid" wage structure requires more than that. Rigidity has to do with whether the increase in compensation for all jobs is roughly the same or, at a minimum, changes in a systematic way. If, for example, average compensation routinely increases by 50 percent for one job and only 10 percent for another job, one cannot conclude that an increase in pay for one group caused by an employee receiving a cold-call or for some other reason was "shared" with the other group. Indeed, the fact that pay went up 40 percent more for one group than the other implies that increases in pay across jobs were not common, and that the wage "structure" changes substantially over time rather than remains rigid.

## B. Correlation Levels that Dr. Leamer Finds "Astounding". Imply that Almost All the Variation in Job-Level Compensation is *Not Explained* by Class-Wide Average Compensation

26. Dr. Leamer reached the wrong conclusion about the rigidity of the Defendants' compensation structures from his correlation analysis because it appears that he did not consider what a particular level of correlation implies for the supposed rigidity of the compensation structure. He provides no means of evaluating whether a correlation of, say, 0.4 is sufficient to conclude that a compensation structure is somewhat rigid.

<sup>&</sup>lt;sup>21</sup> Exhibits 7 and 8 show changes in the raw data. I have also looked at versions of these charts adjusting the compensation changes for individual characteristics and fixed job effects. Adjusting for individual characteristics makes very little difference to the results.

<sup>&</sup>lt;sup>22</sup> I have performed the same analysis for starting years of 2004 and 2006 because the starting year matters somewhat for the average level of change (although much less so for the variation in changes), and the results are comparable.

<sup>&</sup>lt;sup>23</sup> Leamer Dep. at 563:8-15.

- 27. Dr. Leamer calculates correlation between changes in job-level averages and the class-wide average compensation<sup>24</sup> that range from -0.96 to 0.99 across the seven Defendants. This average hides wide variation in the estimated correlations across jobs. But, his conclusion would be unwarranted even if all of the true correlations between job-level compensation changes and class-wide average compensation were equal to his average estimated correlation (roughly 0.60).<sup>25</sup>
- 28. It is important to understand what a correlation means in order to interpret and evaluate Dr. Leamer's findings. A correlation of 0.6 between the average compensation for a job title and the class-wide average means that 64 percent of the variance remains after controlling for changes in the class-wide average (=  $1 .6^2$ ). The amount of variation that remains after accounting for movements in the class-wide average equals the square root of 0.64, or 0.80. This means that the remaining variation in job-level compensation after controlling for changes in average class-level compensation is 80 percent of the total variation in job-level compensation in the raw data, or *only 20 percent less than if there were no correlation at all.*<sup>26</sup>
- 29. Given that Defendants' data show that job-level compensation does not move in lockstep, or anything close to it, there is no economically meaningful sense in which Defendants have somewhat rigid compensation structures that would necessitate sharing of compensation jobs across the class irrespective of the correlation coefficients that Dr. Leamer calculates. The wide variation across individual employees within a job title does not support Dr. Leamer's inference that, in the Court's words, "the Defendants' salary structures were *so* rigid that compensation for employees with entirely different titles would necessarily move together through time such that a detrimental impact to an employee with one job title would necessarily result in an impact to

<sup>&</sup>lt;sup>24</sup> Dr. Leamer actually uses the average of class-wide compensation excluding the job at issue. Given the number of jobs, this is similar to the class-wide average compensation.

<sup>&</sup>lt;sup>25</sup> In his backup, Dr. Leamer provided an estimate of the mean correlation by firm based on his "shrinkage" methodology. The average across Defendants of these measures is 0.57. I use 0.6 for illustrative purposes.

 $<sup>^{26}</sup>$  The square of the correlation coefficient, which measures the percentage of the variance in job-level compensation changes that are explained by changes in the class-wide average, is  $.36 (0.36 = 0.6^2)$  in this example). However, the range of variation in compensation changes we observe is measured by the standard deviation (which equals the square root of the variance), not the variance. This shows why Dr. Leamer's focus on the degree of correlation is so misguided.

other employees in entirely different jobs (*i.e.*, that any impact would ripple across the entire salary structure)."<sup>27</sup>

- IV. DR. LEAMER'S REGRESSION ANALYSIS DOES NOT SHOW THAT FORCES OF INTERNAL EQUITY COMBINED WITH THE HYPOTHESIZED "SOMEWHAT RIGID" WAGE STRUCTURE GENERATE CLASS-WIDE IMPACT FROM THE CHALLENGED AGREEMENTS
- 30. Dr. Leamer explains the rationale for and conclusions to be drawn from his regression model as follows:

Correlation of title compensation and class compensation could come from sharing effects but could also come from third variables that operate on both title and class compensation at the same time, for example, "market forces." To *confirm* the existence of a somewhat rigid compensation structure revealed by my correlation analysis, I examine (company by company) a multiple regression model which *forces the class compensation to compete with other variables as an explanation of title compensation.*<sup>28</sup>

Based on this analysis, Dr. Leamer claims to demonstrate that increased compensation for individuals in one part of the firm (e.g., within a particular job title) would "ripple" to (or, as he refers to it, "be shared" with) all other employees in the proposed Technical Class. He claims to do so with a regression model that demonstrates two types of "sharing." First, Dr. Leamer claims to find contemporaneous sharing in which an increase in compensation for one group (a job title) causes a contemporaneous increase in compensation for other groups (other job titles in the class). Second, he claims to find lagged sharing that demonstrates a form of "catch-up" in which compensation for a group that falls behind in one year increases the following year through some unspecified "corrective action" to become closer to its "normal" level relative to the rest of the class.

31. However, both of Dr. Leamer's inferences regarding sharing are unsupported by his regression and are entirely unfounded. His regression model suffers from two well-known statistical fallacies – the "reflection problem" and "reversion to the mean" – that make his interpretation of the sign and statistical significance of coefficients on the sharing and external variables in his regression for purposes of evaluating his theory improper. In combination, these

<sup>&</sup>lt;sup>27</sup> Order at 36.

<sup>&</sup>lt;sup>28</sup> Leamer Supplemental Report ¶24 (footnote omitted, emphasis added).

two statistical fallacies virtually guarantee that Dr. Leamer will obtain the results that he does, even if his theory is wrong and there is no effect of one individual's compensation on the compensation of other employees and no impact of changes in average compensation for one job on average compensation for other jobs (i.e. no "sharing").

#### A. Dr. Leamer Ignores the "Reflection Problem"

- 32. Dr. Leamer commits a long-recognized error of statistical inference. He ignores the "reflection problem" in concluding that the change in average class compensation causes the average compensation of a job title to increase. As a consequence, Dr. Leamer would expect to obtain the same regression results even if there were no "sharing," and no propagation of a cold-call related increase in compensation for one employee or a small group of employees into increases in compensation for the rest of the proposed class.
- 33. The canonical example to illustrate the reflection problem is the relationship between one individual's test scores and the average test scores of the individual's classmates. There will tend to be a positive relationship between the performance of the individual and her classmates. If one uses a regression like Dr. Leamer's, the positive coefficient on the classmates' average test scores will show that a higher average score for an individual's classmates are associated with higher score for the individual. However, this result provides no information to distinguish between two alternative theories: (1) that the student does better because she is in a class with higher performing classmates (in Dr. Leamer's terminology, that the achievements of classmates are "shared" or transmitted to an individual student) or (2) that both the student and her classmates are influenced by common factors, such as the quality of the school or teacher or a more advantageous family background. A regression like that estimated by Dr. Leamer does not permit one to tell which is correct, because both theories could explain why a student performs better when she is in classroom with better students.<sup>29</sup>
- 34. This is the reflection problem, and it is the fallacy that Dr. Leamer commits. The coefficient on his contemporaneous variable merely shows that there is correlation between changes in compensation of one job title and the average compensation of the class, but it does not reveal the cause of that correlation. Indeed, finding that compensation for a given job

 $<sup>^{29}</sup>$  This problem is a critical issue in deriving conclusions from analyses such as those performed by Dr. Leamer.

increases more than normal when the average increase for all other jobs in the class is larger than normal is hardly surprising, even in the absence of sharing. After all, the class-wide average outcome is essentially the average of the outcomes for the constituent groups.

35. The "reflection problem" is a well-known pitfall in interpreting regressions like those offered by Dr. Leamer that attempt to identify whether group-level outcomes (in this case, compensation for the class as a whole) influences individual-level outcomes (in this case, average job-level compensation). As described by Professor Charles F. Manski, who pioneered the research in this area, correlation between group behavior and individual behavior cannot by itself answer the question whether group behavior influenced individual behavior:

This identification problem arises because mean [average] behavior in the group is itself determined by the behavior of group members. Hence, data on outcomes do not reveal whether group behavior actually affects individual behavior, or group behavior is simply the aggregation of individual behaviors. This *reflection problem* is similar to the problem of interpreting the (almost) simultaneous movements of a person and his reflection in a mirror. Does the mirror image cause the person's movements or reflect them?<sup>30</sup>

appear that they are responding to each other even when they are not. Moreover, this can be true even when such common factors are relatively unimportant determinants of individual outcomes.

36. In the Technical Appendix, I explain how the statistical property known as the reflection problem makes Dr. Leamer's conclusions about "sharing" and "catch-up" unjustified. The import of that analysis is as follows. Consider a hypothetical firm with many job titles. Compensation in each job title is determined solely by the sum of two types of factors: (1) common factors (firm-level success, changes in the general economy, etc.) and (2) job-specific factors (group-level performance, changes in the market for individual skills, etc.). One can illustrate the fallacy in Dr. Leamer's results by considering the case where these job-specific factors are completely independent across jobs. In other words, there is no "sharing" – no impact of compensation in one job on compensation in any other job – because the job-specific factors are entirely independent of and do not influence one another.

Generally, when individuals in a group are subject to at least some common influences, it will

<sup>&</sup>lt;sup>30</sup> Charles F. Manski, "Economic Analysis of Social Interactions" 14 J. Econ. Perspectives 115 (2000), at 128. Understanding mean reversion (or simultaneity) in data is an important issue when evaluating policy interventions (see Robert A. Moffitt, "Policy Interventions, Low-Level Equilibria, and Social Interactions" in *Social Dynamics*. MIT Press, 2001, Section 3.2.1 – Simultaneity).

- Now consider Dr. Leamer's regression, which he says demonstrates that there is 37. "sharing" of compensation adjustments between job titles. In essence, what Dr. Leamer does is to substitute a variable that measures the change in average compensation for the rest of the class (his "contemporaneous sharing" variable) for the common and job-specific variables that are the true determinants of job-specific compensation. Thus, his sharing variable reflects changes in compensation for all the other jobs at the firm, even though, by assumption, compensation changes for those other jobs have no direct causal impact on the change in compensation of a particular job (because job-specific factors are totally independent). The consequence is that his estimated coefficient on this variable will reflect the variance of changes in the common factors and the variance of the changes in job title-specific factors for all the job titles, but (for the technical reason that I explain in the Technical Appendix) the magnitude of the estimate will be dominated by the common factors (rather than job-specific factors) when the firm has many different job titles contributing to firm-wide average compensation. As a result, the measure of the change in average compensation for the firm effectively serves as a proxy for the common factors that affect both compensation of the particular job title and compensation of all other jobs at the firm. The coefficient on the change in class-wide compensation does not measure "sharing" or any causal relationship between compensation of a particular job and the jobspecific factors that influence compensation for other jobs. Nevertheless, Dr. Leamer interprets his results as proof that the change in job title compensation is caused by sharing because he fails to recognize the reflection problem.
- 38. Dr. Leamer's confusion about what he can conclude from this correlation evidence, and the relevance of external factors, was apparent at this deposition. He testified that changes in compensation for the various job titles at Adobe between 2001 and 2003, during the "tech bust," were particularly useful for testing his rigid compensation structure and sharing theories. But this is exactly the wrong type of variation (a shock common to Adobe as a whole and indeed to the entire tech industry) to test his theory that cold calls to individual employees would be "shared" with all or nearly all Technical Class employees. The fact that compensation for many or even all groups of employees at Adobe fell when there was a common shock (the tech-bust) that affected Adobe's business as a whole and the local labor market broadly, and then rose when

<sup>&</sup>lt;sup>31</sup> Deposition of Edward Leamer, June 11, 2013 ("Leamer Dep.") at 747:17-749:16.

economic conditions improved, does not show that a force that operates directly on one group of employees would ripple out to (*cause* compensation changes for) others. Shocks that directly affect many groups would be reflected in correlation of compensation of those groups, even if there were no linkages at all.

- 39. Furthermore, Dr. Leamer's characterization of his average compensation change and lagged compensation change variables as "internal factors" that cause changes in average compensation for a job makes no sense. Changes in average compensation of the class cannot be the ultimate "cause" of changes in job-level compensation, because the change in the overall average is determined by the changes in average compensation of the jobs that comprise that class average. In a sense, this conceptual error is at the heart of the "reflection problem" as a matter of economic logic, both the overall average and its components must be determined by some underlying factors that Dr. Leamer has not identified. His analysis cannot reveal whether these underlying factors are internal (which one might define to be firm-specific factors) or instead are driven by the external marketplace.
- 40. The simple, but important, implication of Dr. Leamer's confounding of internal and external factors is that there must be omitted factors in Dr. Leamer's model, or there can be no adjustment process of the type that he claims. If we accept his estimated "sharing" model, then there must be some cause that initiates the deviations from his somewhat rigid compensation structure, and thus leads to the changes in overall average compensation which then are propagated throughout the compensation structure. Once one admits that such unmeasured factors exist, but that they are unidentified, it is pure faith to claim, as Dr. Leamer does, that they are not common.

#### B. Dr. Leamer's "Horse Race" Is Uninformative

41. Dr. Leamer does not completely ignore the fact that common factors can generate the appearance of sharing even when none actually exists. To test whether his "sharing effect" simply reflects "external factors" that are common across job titles,<sup>32</sup> he claims to have run a "horse race" between the "sharing" effects that underlie his theory and external factors that, if they were the cause of his results, would refute his theory. Based on this analysis, which he

<sup>&</sup>lt;sup>32</sup> Leamer Dep. at 571:25-573:3 and 597:21-598:2.

implements by including "external" factors in the same regression as the two "sharing" variables, he concludes that "[t]he regression analysis reported above indicates that the internal sharing effects are generally more detectable than either revenue sharing or the external market forces."<sup>33</sup>

- 42. Dr. Leamer's "horse race" is flawed, just like his methodology in general. His results simply reinforce his errors of interpretation rather than providing information about the underlying data. In the Technical Appendix, I illustrate this by showing what happens when some measured common factors are added to the model. I show that, when measured common factors (in his case San Jose employment and firm revenue) that capture only a portion of the variance in common factors (with the rest being unmeasured) are included, the coefficient on the measured external factors will reflect only a small fraction of the true impact of the external factors, while the estimated coefficient on the firm-wide average compensation change will decline only slightly (the technical explanation for this is in the Appendix). For example, in the model that I develop in the Technical Appendix, adding factors that account for 50 percent (a relatively large fraction) of the common factors reduces the estimated sharing effect from 0.86 to 0.75. In addition, the estimated impact of the common factors that are included in the regression is only one-quarter of its true size.
- 43. This downward bias in the estimated effect of Dr. Leamer's "external factors" is once again a well-known problem in econometrics. The classic example can be seen in the economics of education. If an analyst constructed a regression model in which income was a function of education and an individual's lagged income, the coefficient on education in the regression will understate, perhaps dramatically, how much education contributes to the individual's income. The problem is that education also increases lagged income and therefore part (maybe most) of the effect of education on income will be captured by this lagged effect rather than by the education variable itself. At a technical level, Dr. Leamer's regression model suffers from what is known in econometrics as an "endogeneity problem," which arises when some of the same unmeasured common factors drive both the independent and dependent variables. It is well known that including an endogenous variable (i.e., one that is correlated with the omitted factors here, lagged income) will bias coefficients on both the endogenous variable (in this case the

<sup>&</sup>lt;sup>33</sup> Leamer Supplemental Report ¶65.

sharing variable) and on the other variables included in the regression (in this case, education),<sup>34</sup> and that controlling for some of these omitted factors does not solve this problem.

44. The consequence is that Dr. Leamer's analysis and the "horse race" that he claims supports the "somewhat rigid" compensation structure on which his theory relies are uninformative. His "horse race" between his "sharing" and "external" variables was fixed, because the statistical properties of the model predetermine that the "external" variables he added would not matter substantially and that his "result" that internal sharing was important would survive even when it does not represent the underlying process that generates the data (i.e. even when there is no sharing).

### C. Dr. Leamer Does Not Take Into Account the Tendency of Compensation to "Revert to the Mean"

- 45. Dr. Leamer's second statistical fallacy arises from "reversion to the mean" and is known as the "regression fallacy." The regression fallacy arises when an analyst examines a data series that is subject to shocks that are, at least to some extent, temporary, and ignores the tendency of such data to "regress" or revert to the mean of the distribution. Reversion to the mean describes many phenomena, such as the tendency for athletes who perform extremely well or extremely poorly in one year to perform more like the average athlete in the following year. With employee compensation data, it reflects the tendency of an individual who receives an exceptionally large bonus or other form of compensation in one year to receive a smaller bonus or other compensation in the following year (although one that still may be above average).
- 46. A simple illustration of this phenomenon is the expected compensation of a salesman who is paid on commission. In any year, the salesman's compensation can be low (assume \$75,000), medium (\$100,000), or high (\$125,000) based on whether it was a bad, average or good year. Assume that one third of the years are good, another third are average, and the rest are bad. If year one is good, and the salesman earns \$125,000, then there are three equally likely

<sup>&</sup>lt;sup>34</sup> Endogeneity causes the ordinary least squares estimator to be biased and inconsistent. *See* for example, William H. Greene, *Econometric Analysis*, Sixth Edition, Chapter 12. See also Robert S. Pindyck and Daniel L. Rubinfeld, *Econometric Models and Economic Forecasts*, Fourth Edition, Chapter 12.

<sup>&</sup>lt;sup>35</sup> See, e.g., Milton Friedman, "Do Old Fallacies Ever Die?" 30 J. Econ. Literature 2129 (1992). Friedman says that he "suspect[s] that the regression fallacy is the most common fallacy in the statistical analysis of economic data." He also notes that "the phenomenon in question is what gave regression analysis its name."

possible changes for next year: next year is good (compensation of \$125,000 and no change from year one); next year is average (compensation of \$100,000 and a decline of \$25,000 in compensation year over year); and next year is bad (compensation of \$75,000 and a decline of \$50,000 in compensation year over year). Since, by assumption, the three outcomes are equally likely, the expected change in compensation is -\$25,000 ((\$0-\$25,000-\$50,000)/3). In contrast, if year one were a bad year (compensation of \$75,000), the potential changes in compensation the follow year are +\$50,000, +\$25,000 and zero, and the expected change is therefore +\$25,000. If year one is an average year, the three possibilities are no change, +\$25,000 and -\$25,000, for an expected change of zero. The first two scenarios demonstrate expected reversion to the mean compensation level of \$100,000.

47. Exhibit 9 plots the data generated by this process. The level of compensation in year one is measured on the horizontal axis and the change in compensation from year one to year two is measured on the vertical axis. The exhibit shows the regression line that would result from regressing the change in compensation from year one to year two on the level of compensation in year one. The line has slope -1.0, which reflects the fact that the extra compensation (relative to the average) earned today – which is +\$25,000 in a good year and -\$25,000 in a bad year – is not expected to persist in year two, but instead will "revert" in year two to the average of \$0.<sup>36</sup> An analyst that applied Dr. Leamer's methodology could mistakenly conclude from a regression analysis of the change in compensation from year one to year two on the level of compensation in year one that the firm is constantly adjusting the salesman's compensation to keep it in line with the long-run average (that the firm is actively "catching-up" the salesman's compensation to the normal level in Dr. Leamer's terminology), when in fact the firm plays no active role at all. Rather, it is the natural variation in pay that generates what appear to be systematic adjustments to compensation.

This example is easily extended to allow for persistence in compensation over time. In particular, if we assume that the state persists with probability p<1 (i.e. if times are good this year, they will be good the next year with probability p and shift to being average or bad each with probability (1-p)/2 then the regression coefficient will be 3/2(1-p)). When p=1/3 then we have the same case discussed above (no persistence). As long as p<1, i.e. there is some temporary component to compensation, the regression coefficient will be negative.

- At his deposition, Dr. Leamer claimed that reversion to the mean was not a problem that 48. affected interpretation of his analysis or its relevance in supporting Plaintiffs' claims.<sup>37</sup> He appeared to acknowledge that firms could respond to the pressures for internal equity with bonuses and stock grants, which are less visible and so might not be as likely to generate internal equity concerns.<sup>38</sup> However, even if this were true, it does not vindicate Dr. Leamer's methodology or make his conclusions sensible, but instead explains why his theory makes no sense. A firm that uses less visible forms of compensation (bonuses and stock grants) to increase compensation for some individuals without succumbing to pressures for internal equity and adjusting all employees' compensation can avoid "sharing." The compensation data would then make it appear that there was a large "lagged sharing" or "catch-up" effect in Dr. Leamer's regression because of the strong reversion to the mean generated when compensation is adjusted through one-time stock grants and bonuses, rather than through adjustment in base pay, even if there was no sharing at all. In such an example, the sharing effect that Dr. Leamer claims he has estimated instead would result from the firm's decision to use a form of compensation that avoided sharing.<sup>39</sup> In other words, Dr. Leamer's model gets it completely backwards.
- 49. Of course, compensation, especially bonuses and stock grants, has transitory components for reasons unrelated to internal equity. Firms use bonuses and stock grants to provide incentive-based pay<sup>40</sup> that is based on a measure of performance, such as individual or group performance or an individual's or group's contribution to firm profits or revenues. But human performance is subject to many random factors, and exceptional performance often will not recur (or recur as strongly) in subsequent years.<sup>41</sup> This is reflected in the salesman example I gave above. In that

<sup>&</sup>lt;sup>37</sup> Leamer Dep. at 634:3-635:6.

<sup>&</sup>lt;sup>38</sup> Leamer Dep. at 690:5-691:22.

<sup>&</sup>lt;sup>39</sup> Dr. Leamer's conduct regression estimates undercompensation based on total compensation, which includes onetime stock grants and bonuses. Therefore, even if one were to accept the results of his conduct regression, those results may be caused by the types of compensation that Dr. Leamer admits might not be shared.

<sup>&</sup>lt;sup>40</sup> Susan E. Jackson et al., Managing Human Resources. Eleventh Edition, Chapter 11.

<sup>&</sup>lt;sup>41</sup> At his deposition, Dr. Leamer stated that he believed that there would not be "measurement error" or "randomness" in compensation that "create regression to the mean" (Leamer Dep. at 642:12-643:10). However, this is incorrect. When pay is based on performance there will be random elements of pay due to the fact that there are many factors that determine performance beyond the skill level of the individual. Of course, this is not random like flipping a coin; it simply means there are many factors other than the measurable productivity of the individual or group that contribute to performance (and thus pay), and that such factors will vary over time. For example, the

case, we will observe reversion to the mean absent any concerns over internal equity, any rigidity in pay structure, and any conscious action by the firm other than to pay for performance.

- 50. Thus, Dr. Leamer's conclusion that Defendants' data is generated by a causal "sharing" relationship, and that the coefficient on the lagged sharing variable "measures the extent to which corrective action is taken at the company," is unjustified. It reflects a misinterpretation of the data, because he fails to take into account the empirical regularity of reversion to the mean.
- 51. Plaintiffs rely heavily on this lagged sharing term as evidence for their sharing and somewhat rigid compensation structure claims. In particular, they claim in their Motion that I cannot explain Dr. Leamer's finding that "gains for some are shared with others *in a subsequent year*." But their claim is false there is a very simple explanation for this finding, one that is well-established in the labor and econometrics literature to verlooked by Dr. Leamer namely, that reversion to the mean is expected in job-level compensation data. This is not because firms are "sharing" increases or trying to equalize compensation changes across firm. Plaintiffs simply rely on the mistaken belief that one can infer a causal relationship from the fact that high values of a time series are followed by lower values, and low values are followed by higher values.
- 52. Thus, Dr. Leamer confuses predictable reversion to the mean in the data with evidence of a somewhat rigid compensation structure. The data on compensation growth by title says something very different. There is substantial long-run volatility in compensation across jobs, and this volatility results in reversion to the mean.

batting averages of individual players and even teams exhibit strong reversion to the mean because the relationship between skill and outcomes is highly imperfect (see, for example, Nate Silver, The Signal and The Noise (2012)).

<sup>&</sup>lt;sup>42</sup> Leamer Supplemental Report ¶26.

<sup>&</sup>lt;sup>43</sup> In Re: High-Tech Employee Antitrust Litigation, *Plaintiffs' Supplemental Motion and Brief in Support of Class Certification*, August 8, 2013 ("Motion") at 24.

<sup>&</sup>lt;sup>44</sup> Chang Hwan Kim and Christopher R. Tamborini, "Do Survey Data Estimate Earnings Inequality Correctly? Measurement Errors Among Black and White Male Coworkers," Social Forces (2012). Donggyun Shin and Gary Solon, "New Evidence on Real Wage Cyclicality within Employer-Employee Matches," Scottish Journal of Political Economy 54 (2007).

#### D. Empirical Evidence Shows that Dr. Leamer's Regression Results do not Reflect the Causality Required by his Theory to Support Plaintiffs' Claims of Class-Wide Impact

53. Dr. Leamer claims that his regression identified impacts of "sharing" and "catch-up" (or "corrective action") from forces of internal equity and a "somewhat rigid" compensation structure at each Defendant. He also claims that the relative unimportance of external market forces (measured by information sector employment in the San Jose MSA) demonstrates that the change in compensation for a job title within a firm is not driven by outside influences, such as changes in market compensation. I now use other data where "sharing" forces are not present to demonstrate that the (misnamed) "sharing" effect is an artifact of Dr. Leamer's regression specification.

#### 1. The Same False "Causality" is Found with Another Compensation Dataset

54. The fallacy of Dr. Leamer's inference is demonstrated by applying his regression model to wage and employment data for the overall U.S. economy. In these data, compensation cannot be driven by the force of internal equity combined with a rigid compensation structure within a firm. I use data on individuals from the American Community Surveys ("ACS")<sup>45</sup> for the period 2001 to 2010 to calculate average annual compensation for hundreds of occupations in the U.S. economy – jobs such as computer software (applications) engineers; farmers and ranchers; and paralegals and legal assistants. I replicate Dr. Leamer's regression by substituting occupation-level compensation for job-title compensation; U.S. average annual compensation for average class-wide compensation; <sup>46</sup> U.S. real GDP per worker for average firm revenue per employee; and U.S. total employment for San Jose information sector employment. Thus, my regression replicates both the factors that Dr. Leamer claims determine average job-title compensation (his

The ACS database is obtained from IPUMS-USA (Integrated Public Use Microdata Series) which is a project "dedicated to collecting and distributing United States census data." (<a href="https://usa.ipums.org/usa/">https://usa.ipums.org/usa/</a>) "The Integrated Public Use Microdata Series (IPUMS-USA) consists of more than fifty high-precision samples of the American population drawn from fifteen federal censuses and from the American Community Surveys of 2000-2011." (<a href="https://usa.ipums.org/usa-action/faq">https://usa.ipums.org/usa-action/faq</a>) "The ACS is a project of the U.S. Census Bureau that has replaced the decennial census as the key source of information about American population and housing characteristics. ... The 2000 ACS is an approximately 1-in-750 public use sample consisting of 372,000 person records. Public use samples from the 2001-onward ACS are even larger. The 2001-2004 samples each represent approximately 0.4% of the population, including more than 1,000,000 person records per sample. The 2005-onward ACS datasets are full 1% samples containing more than 2,800,000 person records." (<a href="https://usa.ipums.org/usa/acs.shtml">https://usa.ipums.org/usa/acs.shtml</a>).

<sup>&</sup>lt;sup>46</sup> Like Dr. Leamer, I exclude the given occupation from the calculation of U.S. average compensation.

- "sharing" and "catch-up" variables) and the factors that he claims do not affect, or have a much weaker influence on, average job-title compensation (firm revenue and external factors).
- 55. Exhibit 10 compares Dr. Leamer's results with those I obtain using the ACS data. As the exhibit shows, coefficient estimates on variables that are analogous to variables in Dr. Leamer's specification are similar to those he finds in his regression. If anything, they show a stronger impact in the supposed "causal" directions of "sharing" and "catch-up" than he finds. For the data as a whole, the weighted average coefficient estimate on the "contemporaneous effect" variable is 1.09, compared to only 0.72 in Dr. Leamer's regression. The "lagged effect" or "catch-up" variable has a coefficient estimate of 1.32, compared to only 0.41 in his regression.
- 56. In addition, as an analogue of Dr. Leamer's "decile-based" regressions using Defendants' data, I performed an analysis where I rank U.S. occupations by their overall average real earnings during the 2001-2010 period in the ACS data, and group them into deciles of roughly the same size (in terms of their fraction in total U.S. employment in the data over this period). Exhibit 11 compares the coefficient estimates from regressions using the ACS data and those from Dr. Leamer's regressions. I find that, in almost all cases across the deciles, the estimated "sharing" and "catch-up" effects are stronger using the ACS data than the ones Dr. Leamer finds using Defendants' data. Thus, interpreted through Dr. Leamer's view of how the marketplace operates, this means that there is greater sharing and catch-up between extremely diverse occupations and unrelated industries and employers than there is for "technical" jobs within an employer.
- 57. These results, which use national data for widely disparate jobs across all kinds of industries and firms, strongly suggest that Dr. Leamer's results are not capturing what he claims in short, that his results likely are spurious. The logical interpretation is that they suffer from the reflection problem and reversion to the mean that we expect to be there. While the findings from running his regression on national occupation-level compensation are senseless viewed through Dr. Leamer's economic theory, they are not surprising when that theory is discarded.
- 58. A variety of common factors would cause average compensation in one occupation to be correlated with average compensation for the U.S. economy as a whole, but Dr. Leamer's hypothesized "internal equity" and "rigid compensation structures" are not among those factors. Common influences, such as the overall performance of the economy, will cause average

compensation for most occupations to move in a common way with the aggregate economy. But this no more demonstrates that compensation for farmers is "catching" up to preserve "fairness" relative to paralegals than it can be concluded that Dr. Leamer's regressions demonstrate "fairness" and causation within the Defendants' data.

- 2. A Regression Model that Explains the Change in Chicago Temperature as "Catchup" from the Difference between Chicago and Milwaukee Temperatures Illustrates Dr. Leamer's Misleading Conclusions
- 59. The misleading conclusions caused by ignoring the "reflection problem" and "reversion to the mean" are not limited to regressions using labor market compensation data. To illustrate how easy it is to get results like those presented by Dr. Leamer, and how wrong the conclusions that can be drawn when an analyst ignores basic statistics, I use data on daily temperature for two cities: Chicago (where I live) and Milwaukee (a nearby city). In keeping with Dr. Leamer's specification, I examine changes in daily temperature in one of the two cities (e.g. Chicago), using as explanatory variables (a) changes in the temperature of the "reference" city (e.g. Milwaukee), and (b) prior day's temperature difference between the reference city and the city under study. The first explanatory variable is analogous to Dr. Leamer's contemporaneous "sharing" variable, and the second variable is analogous to his "catch-up effect" variable.
- 60. Exhibit 12 shows the results of this analysis. The left panel presents results for Chicago and the right panel presents results for Milwaukee. "Model 1" shows estimates from a simple specification including just the "sharing" and "catch-up" variables. Not surprisingly, the results mirror those presented by Dr. Leamer. The coefficient estimates on both variables are positive. Given how Dr. Leamer interprets similar results from his regression, he would conclude that, for example, the positive coefficient on the second variable implies that there is "corrective" action to lower Chicago's temperature and increase the temperature in Milwaukee when yesterday's temperature in Chicago is warmer than normal.
- 61. The effect of adding common factor variables, and thus running the Dr. Leamer-type horse race, is illustrated in the next two columns. "Model 2" includes only indicator variables for months of the year as explanatory variables, and does not contain the "sharing" or "catch-up" variables. The results agree with intuition: as can be seen from coefficient estimates on the

month indicator variables, temperature begins to fall in August, declines rapidly through the fall, and then begins to rise in February.

62. In the next "Model 3" column, I combine the explanatory variables from Model 1 and 2. Now the sensible monthly pattern is gone. Instead, coefficient estimates on the month variables would seem to suggest that for Chicago, temperature increases in every month of the year and for Milwaukee, temperature decreases in every month of the year. This happens because coefficients on the month variables no longer reflect their actual effects on temperature. Instead, measurement of the monthly pattern is confounded by what Dr. Leamer would call contemporaneous "sharing" and lagged "catch-up" variables. Dr. Leamer would thus come to two conclusions – both of which contrary to common sense – that changes in Chicago temperature can be explained by "sharing" or "catch-up" effects with Milwaukee temperature.

#### E. Conclusion

- 63. Dr. Leamer's correlation and regression results reflect the same pattern of "sharing effects" that one would find in national level labor market data, a regression analysis to explain changes in the daily temperature in Chicago based on the lag of temperature in Milwaukee, or using other data on related time series that have both common and idiosyncratic effects. Dr. Leamer confuses well-known and predictable properties of regressions of related time series with causal effects. He characterizes his results as evidence of "sharing" generated by concerns about internal equity and compensation policies that enforce a somewhat rigid wage structure, but his inference is at odds with sound econometric practice.
- 64. In their Motion for Reconsideration, Plaintiffs dispute the explanation I provided in my previous report<sup>47</sup> for why the data are consistent with Defendants' employees' compensation being determined by competition in a broad labor market, with highly individualized adjustments for unique circumstances of individual employees, such as information received through a cold call.<sup>48</sup> They claim instead that Dr. Leamer's regression analysis in his Supplemental Report demonstrates that my "speculation" is "unsupportable." Yet, the evidence that I provided above,

<sup>&</sup>lt;sup>47</sup> In Re: High-Tech Employee Antitrust Litigation, Expert Report of Professor Kevin M. Murphy, November 12, 2012.

<sup>&</sup>lt;sup>48</sup> Motion at 24.

like that in my previous report, shows that, far from disproving my conclusion, Dr. Leamer's empirical findings are consistent with the existence of a broad labor market in which employee compensation is affected by individual factors, such as information revealed during a cold call, but the impact of such events on other employees is limited and does not spread to the entire proposed class. Dr. Leamer's results are fully consistent, and indeed expected, if a reduction in cold-calling would not have class-wide impact.

### V. DR. LEAMER DOES NOT ESTABLISH THAT THE PROPOSED TECHNICAL CLASS IS PROPERLY DEFINED

- 65. Dr. Leamer claims that he "do[es] not find persuasive evidence to suggest that there are sizeable groups whose compensation might have been disconnected from Defendants' somewhat rigid compensation structure" or that there is any way to "identify and exclude from the Technical Class job titles based on a lack of these positive correlative relationships." In other words, Dr. Leamer appears to argue that Plaintiffs' have defined the class "just right," or at a minimum in a way that would permit the boundary of that proposed class to be evaluated empirically, no basis for including all jobs that could qualify as "technical" in their proposed class, no matter where located in the country.
- 66. Dr. Leamer's opinions about the composition of the proposed class have no merit given that, as I demonstrated above, his empirical evidence has not established any causal relationship between cold-calls that affect one job title and compensation provided to employees with other job titles, let alone a class-wide impact. While it is possible that there would be some forces within a company that would cause adjustment of compensation of some other employees in response to a cold-call, Dr. Leamer has no basis on which to identify the scope of such influence or to conclude that large portions of the proposed class are not unaffected by the challenged agreements. What matters in determining "common impact" for a class as large and diverse as the proposed Technical Class is not the average extent of linkage between different groups (such as job titles), but that the linkages spread across all (or nearly all) the groups included in the proposed class. Even if correlation mattered for understanding whether some kind of "causal"

<sup>&</sup>lt;sup>49</sup> Leamer Supplemental Report ¶10.

<sup>&</sup>lt;sup>50</sup> Leamer Supplemental Report ¶11.

relationship existed between certain groups, the average level of correlation would not be informative about whether all those groups belong in the same class. Rather, the correlation would have to be high for all, or nearly all groups in the proposed class (again, if as Dr. Leamer claims, correlation itself were informative, which it is not).

#### VI. DR. LEAMER'S CONDUCT REGRESSION REMAINS UNINFORMATIVE

- 67. Dr. Leamer's Conduct Regression suffers from errors that render it uninformative.
- 68. First, the Court noted that "Dr. Leamer's report is slightly ambiguous as to whether any variables besides revenue should have been included to control for correlations across employees...To the extent there are other variables that may improve the accuracy of the Conduct Regression and obviate the need for clustering, Dr. Leamer is encouraged to include them in his next report." Dr. Leamer did not take the opportunity to do so. His argument that these common factors all can be taken into account simply by including additional measured common factors is simply wrong, even if it were feasible to do so given that these factors will differ across Defendants (thereby requiring inclusion of Defendant-specific variables). In any event, Dr. Leamer's failure to respond to the Court's suggestion leaves unknown what method he thinks could be used to demonstrate that his Conduct Regression has any probative value.
- 69. Second, Dr. Leamer acknowledged at his deposition that he responded only to one of the models that I offered in my original report to demonstrate that he wrongly assumed a common conduct effect for all Defendants,<sup>52</sup> and he claimed that the model that he had critiqued had "overwhelmed the data." However, he did not comment on the more parsimonious model that I also offered, which included fewer explanatory variables but which still permitted measurement of separate Defendant-specific conduct effects. My second model (Appendix 11 of my Original Report ) includes Defendant-specific conduct measures by interacting the conduct

<sup>&</sup>lt;sup>51</sup> Order fn. 15.

<sup>&</sup>lt;sup>52</sup> Leamer Dep. at 770:25-771:13.

<sup>&</sup>lt;sup>53</sup> Leamer Dep. at 770:19-23.

<sup>&</sup>lt;sup>54</sup> When asked if he recalled "any reason why you didn't offer a criticism of that second approach by Dr. Murphy in your ... reply declaration," Dr. Leamer responded "Presumably because I didn't have comments to make about it" (Leamer Dep. at 771:6-13).

variable with each defendant. I reduced the number of explanatory variables by not including interactions between conduct and age, and conduct and hiring rate, because as I explained the interactions with age and hiring rate added very little power to the regression. My results (on which Dr. Leamer did not comment on) showed large variation in the size and even the *sign* of the estimated undercompensation effects, with the estimates indicating that employees at Adobe, Lucasfilm and Pixar were not undercompensated, but instead were overcompensated. This indicates that Dr. Leamer had no basis to assume a common impact across Defendants. Dr. Leamer's Table 1 and 2 in his Supplemental Report, which show that there are low or even negative correlations in average total compensation between certain Defendants, also show that one cannot simply assume common impact across Defendants.

Kevin M. Murphy

Kenin M. M.

June 21, 2013

#### TECHNICAL APPENDIX: MODELLING THE REFLECTION PROBLEM

In order to mathematically model the reflection problem in the context of Dr. Leamer's analysis, and thereby illustrate why his conclusions are unjustified, I consider a hypothetical firm with J jobs, each of which has an equal number of employees. Compensation in each job is determined by two types of factors: (1) common factors (firm-level success, changes in the general economy, etc.) and (2) job-specific factors (group-level performance, changes in the market for individual skills, etc.). I assume that compensation for each job is determined by the sum of these two factors. I denote the common factors by A, and the job specific factors by e. Thus, compensation of job j in year t,  $w_{jt}$  is given by

(1) 
$$W_{jt} = A_t + e_{jt}$$

where  $A_t$  reflects the influence of the common factors in year t and  $e_{jt}$  reflects job-specific factors for job j in that year.

I assume that the job-specific factors are independent of (uncorrelated with) one another, and thus there is no "sharing." Transforming equation (1) into year-over-year changes yields for job j

(2) 
$$w_{jt} - w_{jt-1} = (A_t - A_{t-1}) + (e_{jt} - e_{jt-1})$$

The change in average compensation for jobs other than job j is given by

(3) 
$$W_{-jt} - W_{-jt-1} = (A_t - A_{t-1}) + \frac{1}{J-1} \sum_{i \neq j} (e_{it} - e_{it-1})$$

- 3. Equations (2) and (3) describe the true process that determines compensation changes in this model, namely the contributions of changes in common and job-specific factors.
- 4. Now consider a regression analysis analogous to that performed by Dr. Leamer, in which the researcher wants to use these data to understand whether there is "sharing" of the type he claims. The type of regression model specified by Dr. Leamer is:

(4) 
$$w_{jt} - w_{jt-1} = \alpha + \beta(w_{-jt} - w_{-jt-1}) + \varepsilon_{jt}$$

with the change in compensation for one job modeled to be "explained by" the change in compensation of all other jobs, rather than by the changes in common and job-specific factors

that generate the data. It then is straight forward to show that the regression coefficient on the change in the average compensation,  $\beta$ , in equation (4) will be given by

$$(5) \hat{\beta} = \frac{\sigma_A^2}{\sigma_A^2 + \frac{1}{I - 1}\sigma_e^2}$$

where  $\sigma_A^2$  is the variance of the changes in the common factors and  $\sigma_e^2$  is the variance of the changes in the job-specific factors.

5. Equation (5) has the important implication that, when the average outcome variable (in this case average compensation growth) is obtained by averaging over a large number of jobs, the resulting average largely will reflect common factors because the idiosyncratic job-level factors will tend to average out. The denominator in equation (5) is the variance of the change in class-wide average compensation, while the variance of changes in job-level compensation is

(6) 
$$\sigma_A^2 + \sigma_e^2$$
.

Equation (5) shows that the importance of common factors is amplified in the class-wide variables because the contribution of job-specific factors is reduced by the factor 1/ (J-1) <1. For example, if there are 25 jobs, then the contribution of job-specific factors is reduced by a factor of 24 (= 25-1). This means that the change in average compensation variable effectively serves a proxy for the common factors that affect firm-wide compensation. These common factors will be picked up by (and attributed to by an analyst using Dr. Leamer's approach) the average compensation change variable, even if they are a small part of what drives job-level compensation.

6. This proxy effect can be illustrated by considering a simple example where common factors account for only 20 percent of job-level variation and there are 25 equally sized jobs in the firm. The fraction of variance in job-level compensation changes accounted for by the common factors is equal to  $\sigma_A^2/(\sigma_A^2+\sigma_e^2)$ , which implies that  $\sigma_e^2/\sigma_A^2=4$ . Under these conditions, equation (5) implies that we would expect a regression coefficient of 1/(1+4/24)=0.86 on the average wage change variable and a correlation between job-level and average compensation. Thus, even though *by construction*, common factors account for only 20 percent of overall changes in compensation and there is no sharing at all (i.e., changes in compensation for an individual job have no effect on compensation in other jobs by construction), an analyst using Dr. Leamer's methodology would conclude that the compensation structure displays

"astounding" correlation, is "somewhat rigid" and most importantly (and most egregiously for purposes of evaluating Plaintiffs' claims) that 86 percent of the change in average compensation is "shared." This would be true in spite of the fact that there is zero actual sharing and thus no reason why an entire putative "class" of all employees at the firm possibly could be harmed by actions that affect some individuals or even some jobs.

7. Dr. Leamer claims that he was able to reject an alternative theory that his results reflected the influence of common factors by running a horse raise with his "sharing" theory. However, my model shows why he is wrong. Assume that there are some measured common factors, and that these variables capture a fraction  $R^2$  of the variance of the common factors. Then, the coefficient on the average compensation change variable becomes

$$\widehat{\beta} = \frac{(1 - R^2)\sigma_A^2}{(1 - R^2)\sigma_A^2 + \frac{1}{J - 1}\sigma_e^2}$$
(7)

8. If one adds variables to the regression that explain one-half of the common factor effect (i.e.  $R^2$ =0.50), this implies a regression coefficient of 0.75 (versus 0.86 in the regression without the control variable). Importantly, the estimated coefficient on the common factors in the regression would be only one-fourth of its true size, causing the researcher to greatly understate its influence. Adding factors that explain less than 50 percent of the common components generates even smaller changes. For example, adding factors that explain 20 percent of the common factors would result in a "sharing" coefficient of 0.83 (versus 0.86 without controls) and a coefficient on the common variable equal to only about one sixth of its actual size.

#### **Derivation of Equation (7) and Estimated Coefficient on Common Factors**

For simplicity of notation, I now denote everything in changes. Consider also that everything on the right hand side is independent of each other

$$w_{jt} = A_t + e_{jt}$$

$$W_{-jt} = \frac{1}{J-1} \sum_{i \neq j} W_{it} = A_t + \frac{1}{J-1} \sum_{i \neq j} e_{it}$$

Now assume that

$$A_{t} = X_{t} + u_{t}$$

X is observed variable orthogonal to u.

Regress  $w_{it}$  and  $w_{-it}$  on X to get residuals. These are

$$\tilde{w}_{it} = u_t + e_{it}$$

$$\tilde{w}_{-jt} = u_t + \frac{1}{J-1} \sum_{i \neq j} e_{it}$$

Now run OLS to get  $\beta$ .

$$\beta = \frac{\sigma_u^2}{\sigma_u^2 + \frac{1}{I - 1}\sigma_e^2}$$

By definition

$$\sigma_u^2 = \sigma_A^2 (1 - R^2)$$

This yields

$$\beta = \frac{\sigma_A^2 (1 - R^2)}{\sigma_A^2 (1 - R^2) + \frac{1}{J - 1} \sigma_e^2}$$

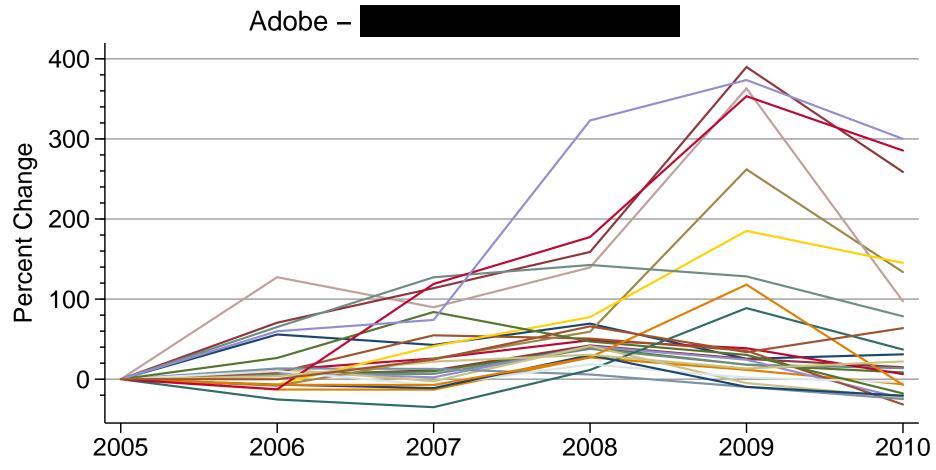
To get the coefficient on X we regress

$$W_{jt} - \beta W_{-jt} = (1 - \beta)(X_t + u_t) + e_{jt} - \frac{\beta}{J - 1} \sum_{i \neq j} e_{it}$$

on X.

This gives a coefficient of  $(1-\beta)$  versus the true coefficient of 1.

# Exhibit 1 Adobe There is Substantial Variation in the Cumulative Change in Total Compensation Among Employees with the Same 2005 Job



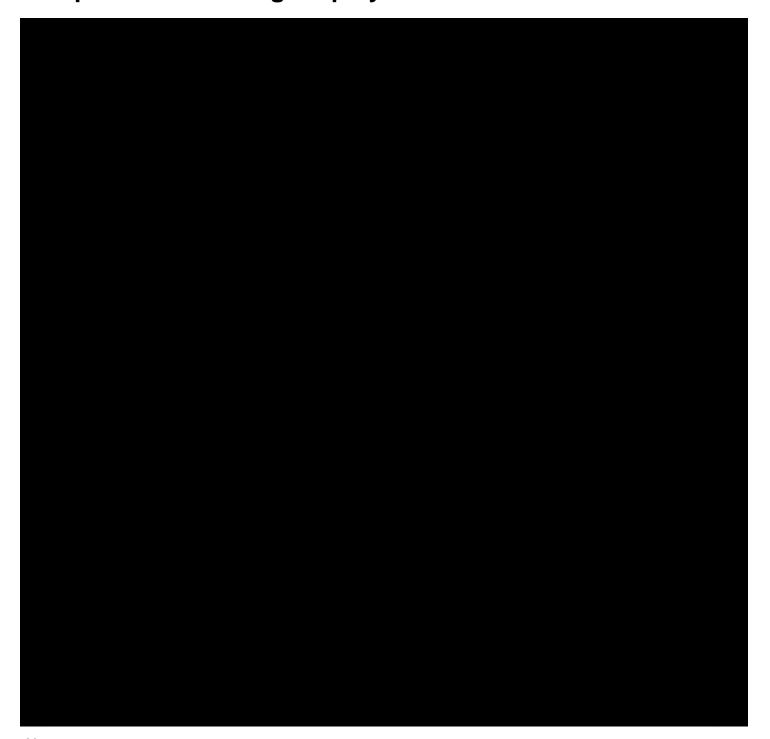
### Notes:

[1] Each line represents the cumulative compensation change for an individual employee.

<sup>[2]</sup> Data are restricted to those employees who remained in RD class positions through 2010. I then selected the Adobe job title with 25 employees (or the closest number to 25).

## **Exhibit 1 Apple & Google**

## There is Substantial Variation in the Cumulative Change in Total Compensation Among Employees with the Same 2005 Job



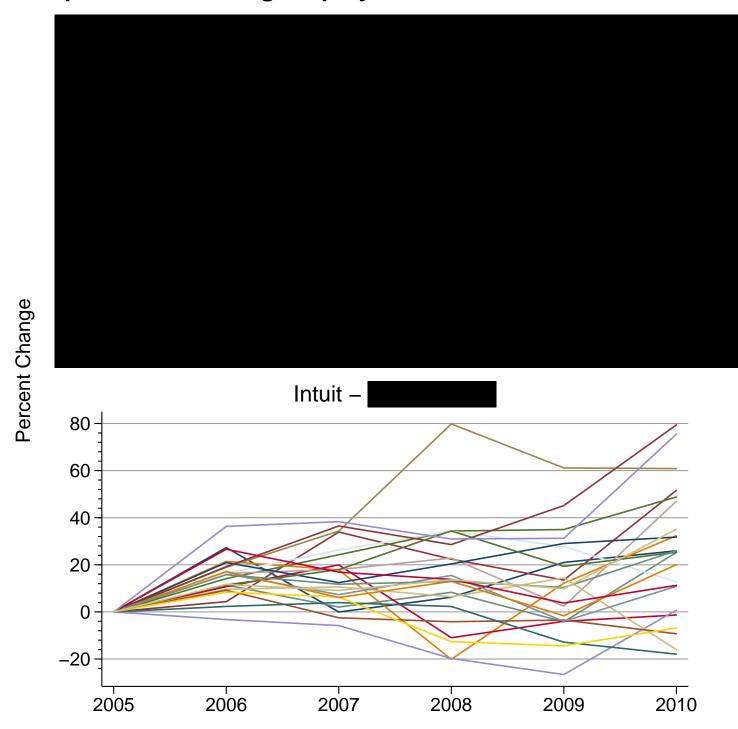
#### Notes:

[1] Each line represents the cumulative compensation change for an individual employee.

<sup>[2]</sup> Data are restricted to those employees who remained in RD class positions through 2010. I then selected from each Defendant the job title that included 25 employees (or the closest number to 25).

### **Exhibit 1 Intel & Intuit**

## There is Substantial Variation in the Cumulative Change in Total Compensation Among Employees with the Same 2005 Job



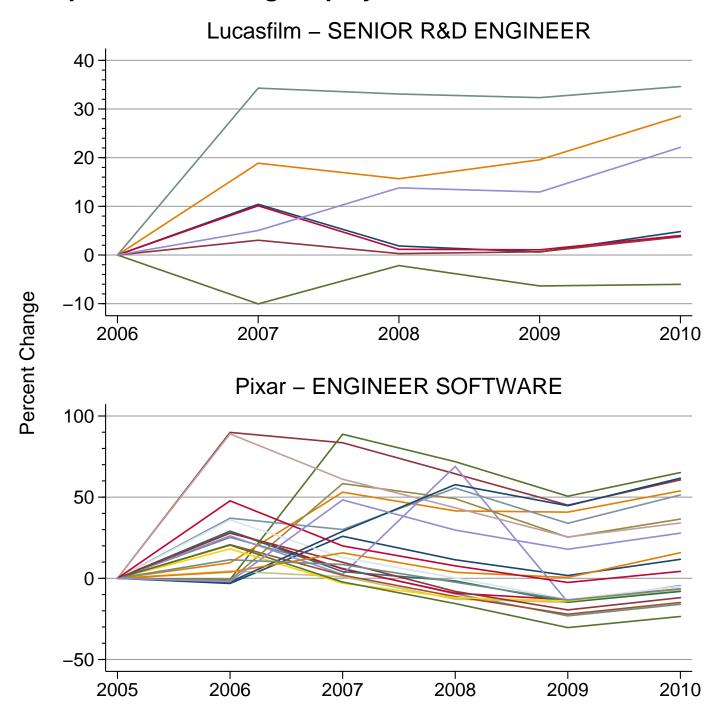
#### Notes:

[1] Each line represents the cumulative compensation change for an individual employee.

<sup>[2]</sup> Data are restricted to those employees who remained in RD class positions through 2010. I then selected from each Defendant the job title that included 25 employees (or the closest number to 25).

## **Exhibit 1 Lucasfilm & Pixar**

## There is Substantial Variation in the Cumulative Change in Total Compensation Among Employees with the Same 2005 Job



#### Notes:

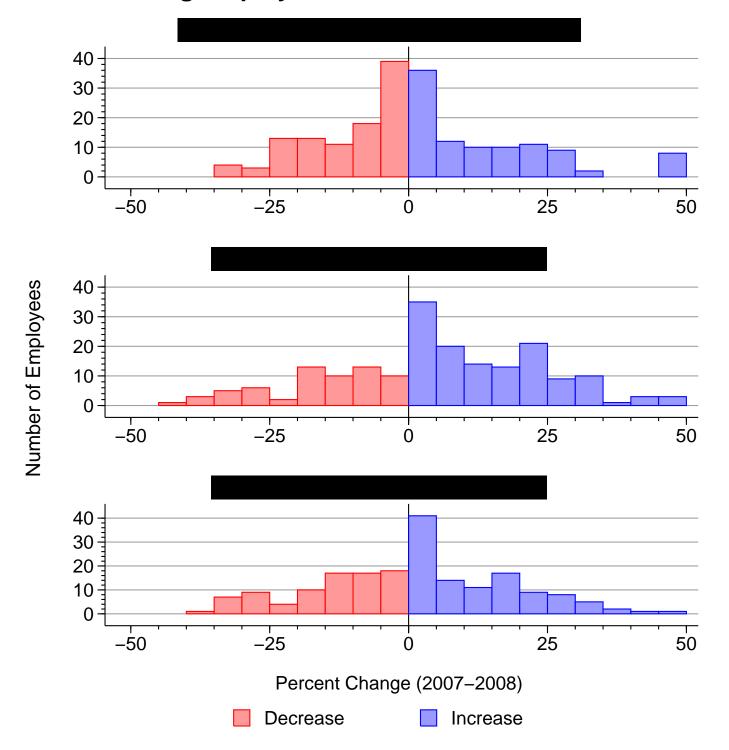
[1] Each line represents the cumulative compensation change for an individual employee.

[3] The Lucasfilm chart begins in 2006, which is the first year for which I have data on Lucasfilm job titles.

<sup>[2]</sup> Data are restricted to those employees who remained in RD class positions through 2010. I then selected from each Defendant the job title that included 25 employees (or the closest number to 25).

### **Exhibit 2 Adobe**

## There is Substantial Variation in Total Compensation Changes Among Employees in the Same Job in 2007

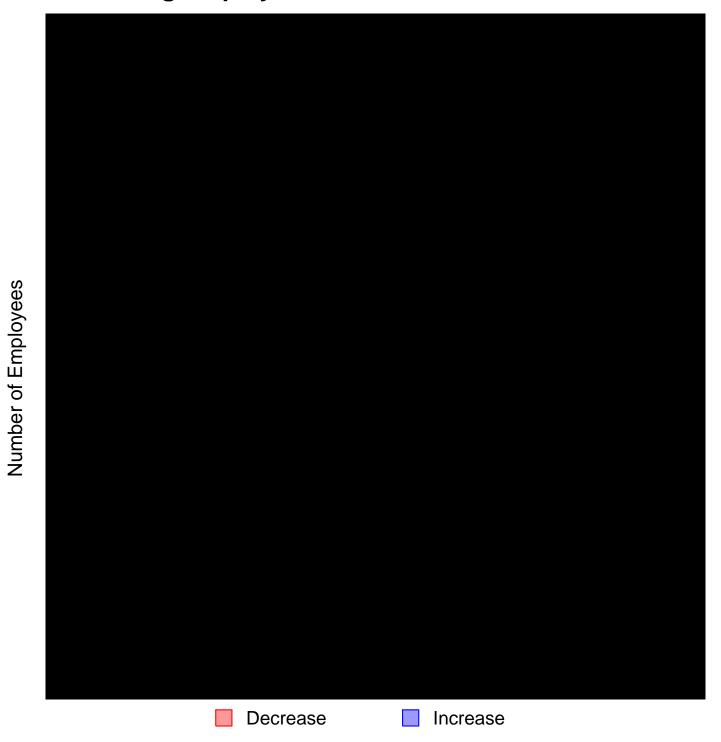


### Notes:

[1] The top 3 Adobe jobs by 2007 employment are shown. See Appendix B for additional jobs and years. [2] Some large positive and large negative changes may be capped at +/–50 percent for ease of display.

## **Exhibit 2 Apple**

## There is Substantial Variation in Total Compensation Changes Among Employees in the Same Job in 2007

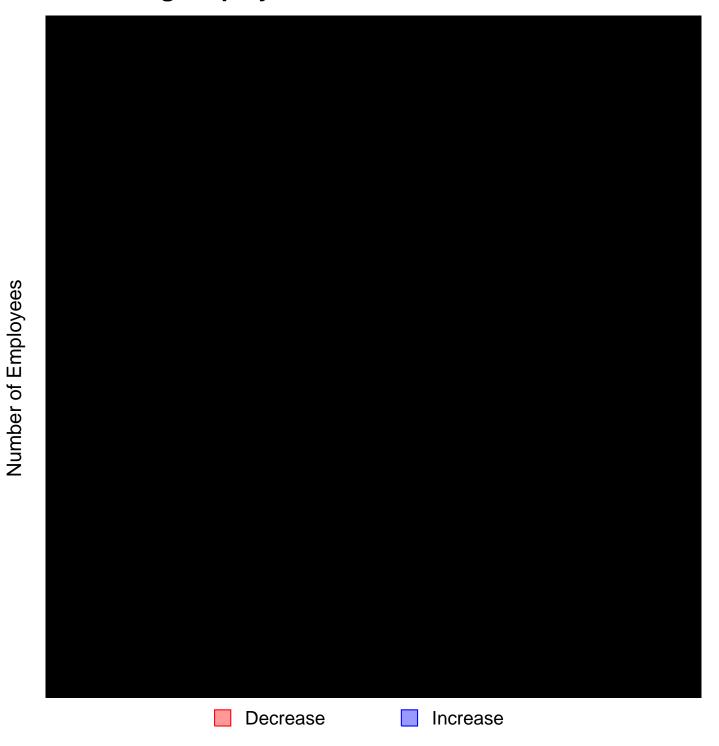


### Notes:

[1] The top 3 Apple jobs by 2007 employment are shown. See Appendix B for additional jobs and years. [2] Some large positive and large negative changes may be capped at +/–75 percent for ease of display.

## **Exhibit 2 Google**

## There is Substantial Variation in Total Compensation Changes Among Employees in the Same Job in 2007

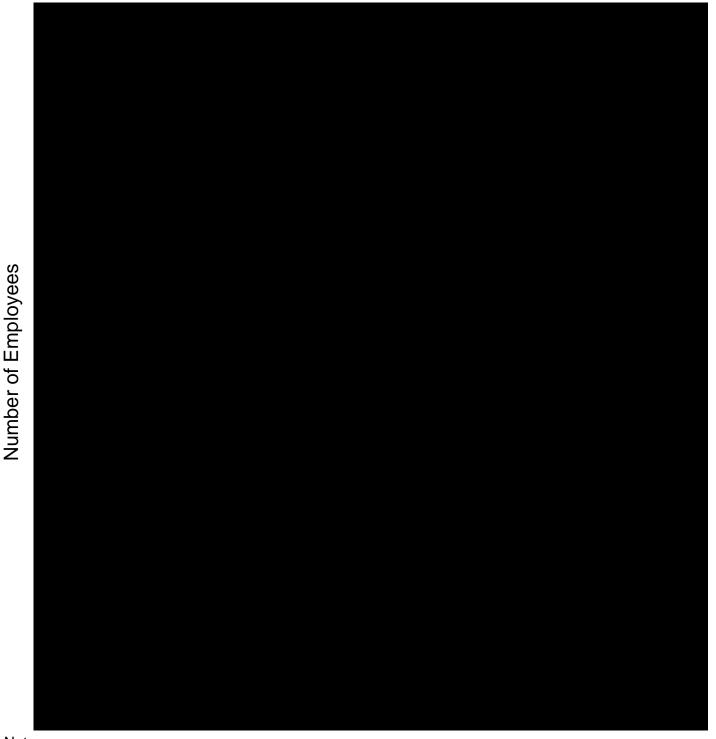


### Notes:

[1] The top 3 Google jobs by 2007 employment are shown. See Appendix B for additional jobs and years. [2] Some large positive and large negative changes may be capped at +/–75 percent for ease of display.

## **Exhibit 2 Intel**

## There is Substantial Variation in Total Compensation Changes Among Employees in the Same Job in 2007



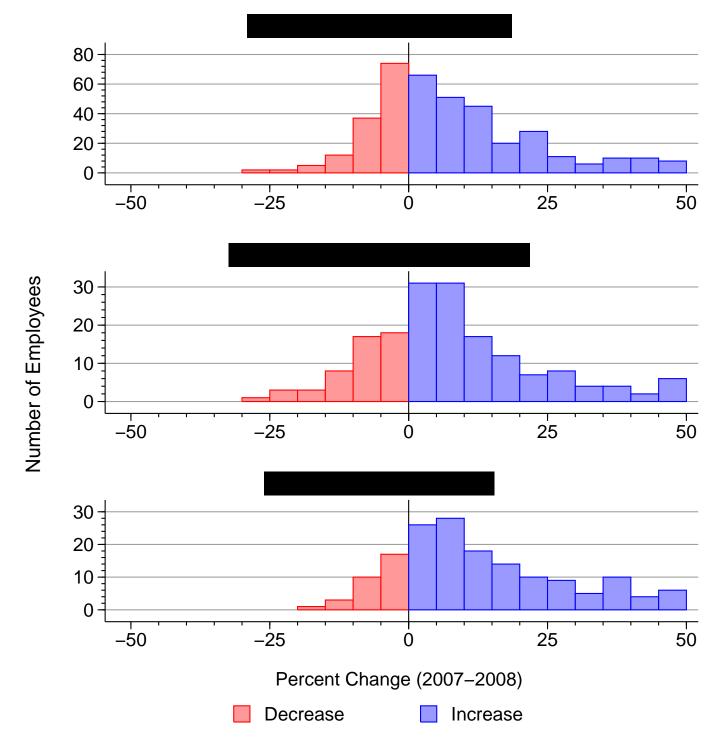
Notes:

[2] Some large positive and large negative changes may be capped at +/-50 percent for ease of display.

<sup>[1]</sup> The top 3 Intel jobs by 2007 employment are shown. See Appendix B for additional jobs and years.

### **Exhibit 2 Intuit**

## There is Substantial Variation in Total Compensation Changes Among Employees in the Same Job in 2007

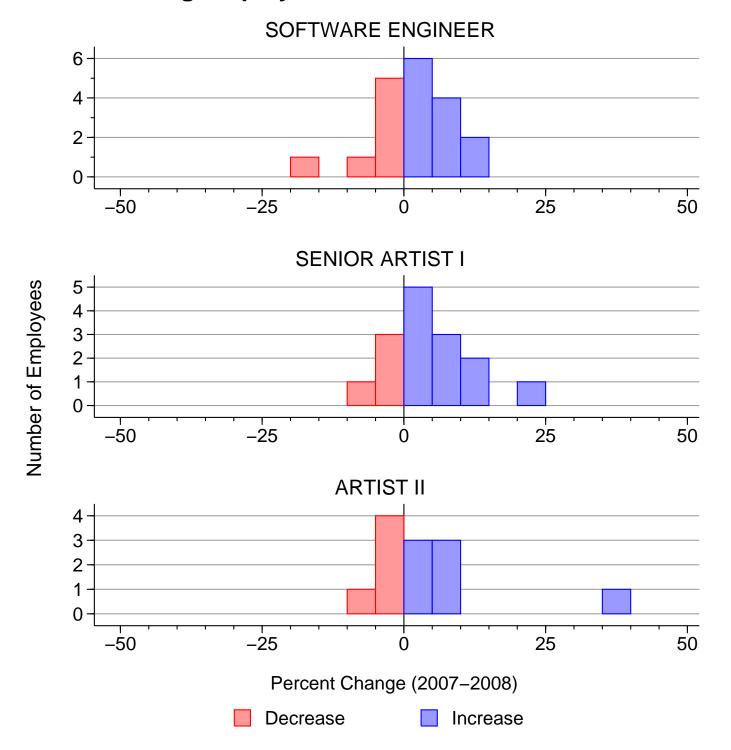


### Notes:

[1] The top 3 Intuit jobs by 2007 employment are shown. See Appendix B for additional jobs and years. [2] Some large positive and large negative changes may be capped at +/–50 percent for ease of display.

### **Exhibit 2 Lucasfilm**

## There is Substantial Variation in Total Compensation Changes Among Employees in the Same Job in 2007

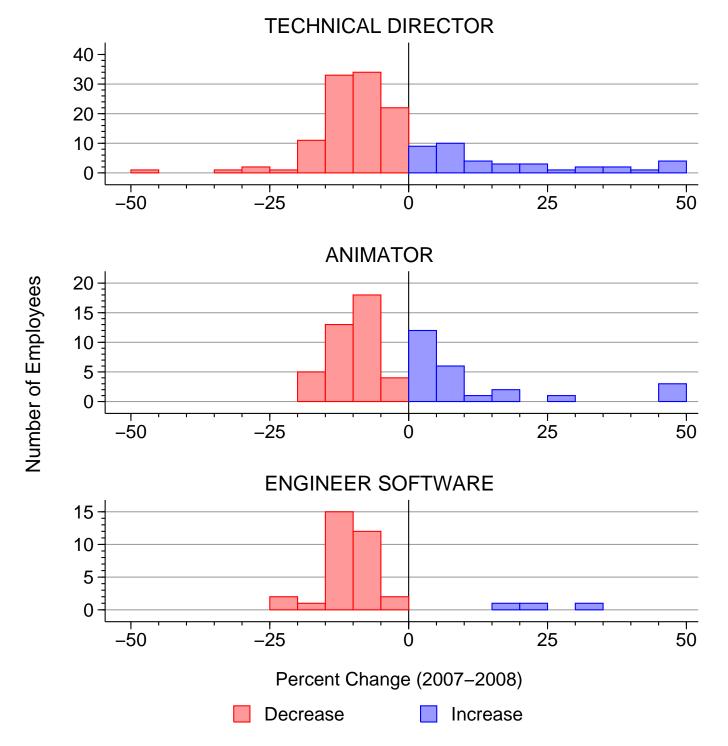


### Notes:

<sup>[1]</sup> The top 3 Lucasfilm jobs by 2007 employment are shown. See Appendix B for additional jobs and years. [2] Some large positive and large negative changes may be capped at +/–50 percent for ease of display.

### **Exhibit 2 Pixar**

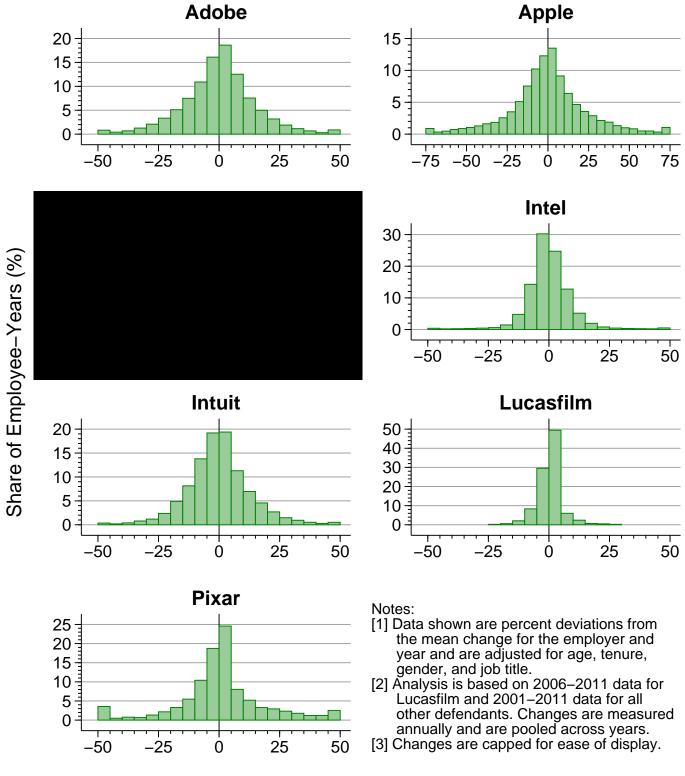
## There is Substantial Variation in Total Compensation Changes Among Employees in the Same Job in 2007



### Notes:

[1] The top 3 Pixar jobs by 2007 employment are shown. See Appendix B for additional jobs and years. [2] Some large positive and large negative changes may be capped at +/–50 percent for ease of display.

## There is Substantial Variation in Changes in Employee Total Compensation (Adjusted for Individual Characteristics and Job)



Deviation from the Mean Change (%)

**Exhibit 4** 

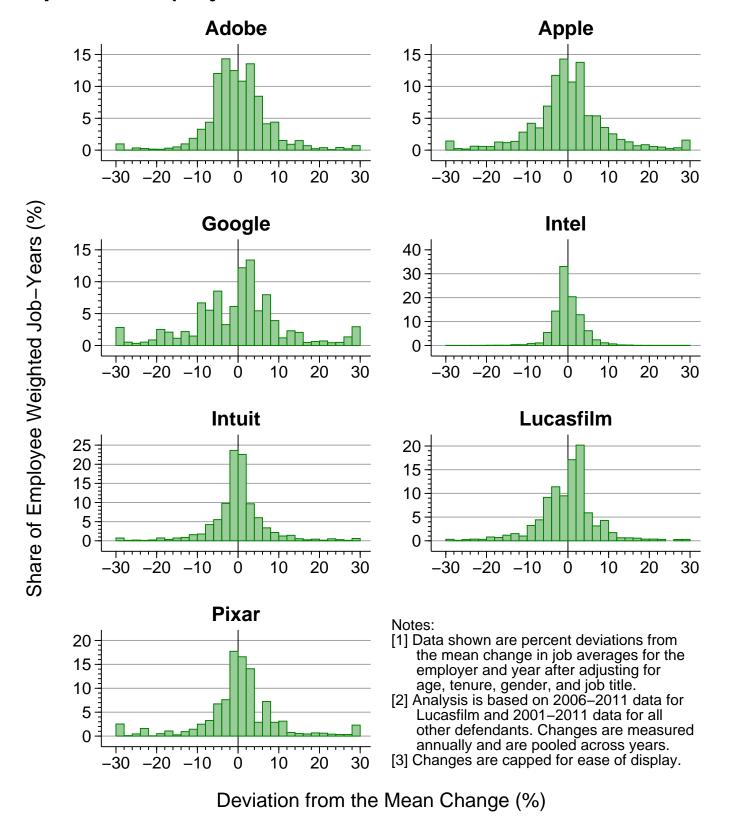
## There Are Large Differences in Compensation Changes Between the Employees with the Lowest Changes and Those with the Highest

	Percent	Deviation from Me	an Compensatio	n Change
Employer	Bottom Decile	<b>Bottom Quartile</b>	Top Quartile	Top Decile
Adobe	-29%	-19%	19%	29%
Apple	-47%	-30%	30%	48%
Google Intel	-72% -17%	-44% -11%	47% 11%	78% 19%
Intuit	-24%	-16%	17%	26%
Lucasfilm	-9%	-5%	6%	10%
Pixar	-45%	-25%	25%	42%

#### Notes:

- [1] Data shown are percent deviations from the average change for the employer and year after adjusting for age, tenure, gender, and job title.
- [2] Percent deviations shown are averages within each decile or quartile.
- [3] Analysis is based on 2006-2011 data for Lucasfilm and 2001-2011 data for other defendants.
- [4] Deciles and quartiles are based on the share of employee years at each defendant.

## There is Substantial Variation in Changes in Job Average Total Compensation (Adjusted for Individual Characteristics and Job)



**Exhibit 6** 

## There Are Large Differences in the Changes in Average Compensation Between Jobs with the Lowest Changes and Those with the Highest

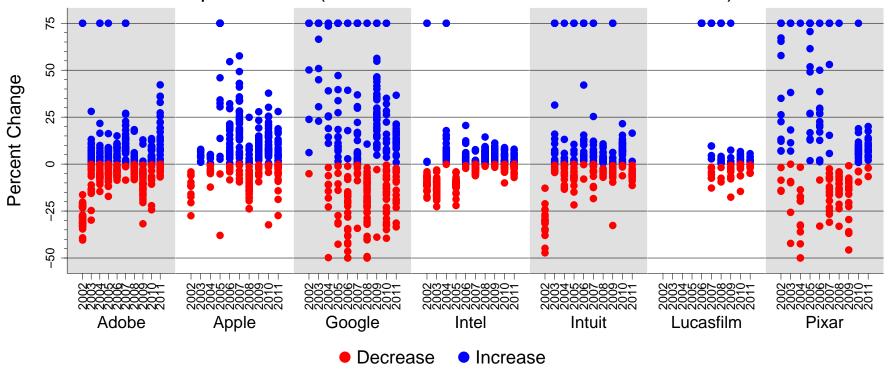
	Percent l	Deviation from Me	an Change in Job	Average
Employer	Bottom Decile	Bottom Quartile	Top Quartile	Top Decile
Adobe	-15%	-9%	10%	16%
Apple	-20%	-12%	12%	20%
Google Intel	-29% -6%	-19% -4%	16% 5%	29% 7%
Intuit	-14%	-8%	8%	14%
Lucasfilm	-14%	-9%	8%	13%
Pixar	-27%	-14%	13%	23%

#### Notes:

- [1] Data shown are percent deviations from the mean change (weighted by employees) in job averages for the employer and year after adjusting for age, tenure, gender, and job title.
- [2] Percent deviations shown are averages within each decile or quartile.
- [3] Analysis is based on 2006 2011 data for Lucasfilm and 2001 2011 data for all other defendants.
- [4] Deciles and quartiles are based on the share of employee weighted job-years at each defendant.

## Exhibit 7 There is Substantial Variation in Annual Changes in Job Average Total Compensation at Each Defendant

Sample of Jobs (A Maximum of 50 from Each Defendant)

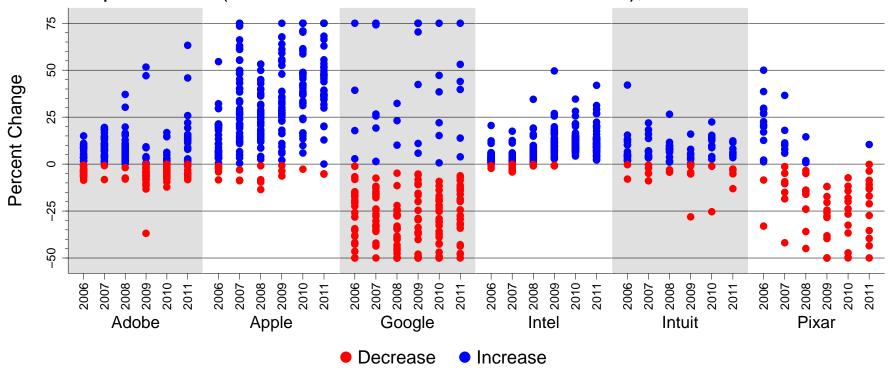


#### Notes:

- [1] Each dot represents the percent change in the average real total compensation for a given job from the previous year to the current year.
- [2] The jobs selected are the five largest jobs (based on 2001–2011 employment) from each decile in Figures 9–12 of Dr. Leamer's Supplemental Report. If there are fewer than five jobs in any decile, then the next largest jobs across all deciles are included to reach 50. In addition, I require that the average number of employees in the job across the two years over which I calculate the compensation change to be at least five.
- [3] Annual changes are capped at -50 and +75 percent. [4] Lucasfilm data are missing job titles prior to 2006.

## Exhibit 8 There is Substantial Variation in Cumulative Changes in **Job Average Total Compensation at Each Defendant**

Sample of Jobs (A Maximum of 50 from Each Defendant), Base Year = 2005

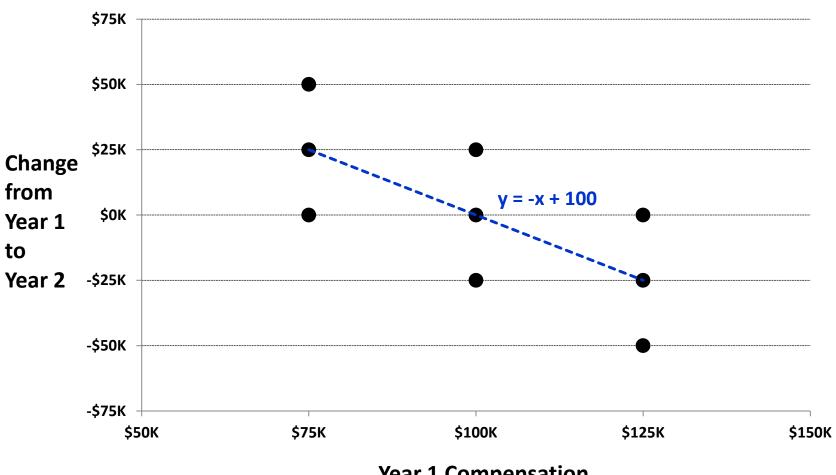


#### Notes:

- [1] Each dot represents the percent change in the average real total compensation for a given job from the previous year to the current year.
- [2] The jobs selected are the five largest jobs (based on 2001–2011 employment) from each decile in Figures 9–12 of Dr. Leamer's Supplemental Report. If there are fewer than five jobs in any decile, then the next largest jobs across all deciles are included to reach 50. In addition, I require that the average number of employees in the job across the two years over which I calculate the compensation change to be at least five.

[3] Cumulative changes are capped at -50 and +75 percent.
[4] Lucasfilm is excluded because its data are missing job titles prior to 2006.

"Reversion to the Mean" Implies Negative Relationship Between **Expected Compensation Change and Lagged Compensation Level** 



**Year 1 Compensation** 

## Dr. Leamer's Regression Model Does Not Establish "Sharing" or "Catch-Up" between Jobs

Panel A: Leamer Model Using Defend	ants' Data	Panel B: Leamer Model Using U.S. Econo	omy-Wide Data (ACS)
Number of Job Titles	<u>889</u>	Number of U.S. Occupations	<u>465</u>
Dependent Variable  DLog(Title Average Annual Total Compensation)		Dependent Variable  DLog(Occupation Average Annual Wage)	
	Coefficient Estimate		Coefficient Estimate
"Contemporaneous Effect Variable"		"Contemporaneous Effect Variable"	
DLog(R&D Average Annual Total Compensation)	0.72	Dlog(U.S. Average Annual Wage)	1.09
"Lagged Effect Variable"		"Lagged Effect Variable"	
Log(R&D Avg Annual Total Comp (-1) /		Log(U.S. Avg Annual Wage (-1) /	
Title Avg Annual Total Compensation (-1))	0.41	Occupation Avg Annual Wage (-1))	1.32
"External Forces Variables"		"External Forces Variables"	
Log(Firm Revenue Per Employee (-1) /		Log(U.S. Real GDP per Worker (-1) /	
Title Avg Annual Total Compensation (-1))	0.12	Occupation Avg Annual Wage (-1))	-0.14
DLog(San-Jose Information Sector Employment)	-0.20	DLog(U.S. Total Employment)	0.03

Notes: Coefficient estimates shown are weighted averages across regressions for all job titles or occupations.

Source: Panel A is based on Leamer Supplemental Report Exhibits 1 and 2. Panel B is based on data from the following public sources:

American Community Surveys (ACS), 2001-2010: Steven Ruggles, J. Trent Alexander, Katie Genadek, Ronald Goeken, Matthew B. Schroeder, Matthew Sobek. Integrated Public Use Microdata Series: Version 5.0 [Machine-readable database]. Minneapolis: University of Minnesota, 2010, https://usa.ipums.org.

<u>U.S. Real GDP</u> (GDPC1): U.S. Department of Commerce Bureau of Economic Analysis. <u>U.S. Total Employment</u> (LNU02000000): U.S. Department of Labor Bureau of Labor Statistics.

## Dr. Leamer's Decile-Based Regressions Do Not Establish "Sharing" or "Catch-Up" between Jobs

### Panel A: Leamer Model Using Defendants' Data

Panel B: Leamer Model Using U.S. Economy-Wide Data (ACS)

		Regressio	n Coefficient Estimat	tes
Decile	"Contemporaneous Sharing"	"Catch-Up"	"External Variable 1" (Firm Revenue)	"External Variable 2" (San Jose IT Employment)
1	0.60	0.37	-0.27	0.19
2	0.55	0.28	-0.09	-0.07
3	0.71	0.40	-0.18	0.13
4	0.58	0.20	0.01	0.05
5	0.73	0.24	0.04	0.04
6	0.66	0.36	0.12	-0.36
7	0.75	0.33	-0.02	-0.07
8	0.71	0.36	0.29	-0.52
9	0.85	0.47	0.15	-0.18
10	1.13	0.04	0.61	-0.37
Average:	0.73	0.31	0.07	-0.12

		Regression	Coefficient Estimate	s _
Decile	"Contemporaneous Sharing"	"Catch-Up"	"External Variable 1" (U.S. GDP)	"External Variable 2" (U.S. Employment)
1	1.36	1.54	-0.48	0.10
2	0.94	1.12	-0.36	-0.28
3	0.85	0.85	-0.12	-0.36
4	1.18	1.74	-0.34	0.16
5	0.86	1.35	-0.21	0.00
6	0.81	0.62	-0.10	-0.25
7	0.84	1.16	0.19	-0.17
8	1.02	0.91	0.15	0.31
9	1.56	0.37	0.36	-0.57
10	0.57	0.92	0.54	-0.02
Average:	1.00	1.06	-0.04	-0.11

Notes: Estimates shown in Panel A are weighted averages across defendants. Deciles in Panel B are defined according to a similar methodology as Dr. Leamer's decile-based analyses, using U.S. occupation's overall average real wage and employment.

Source: Panel A is based on Dr. Leamer's backup materials for Leamer Supplemental Report Figures 9 to 12. Panel B is based on data from the following public sources:

<u>American Community Surveys (ACS)</u>, 2001-2010: Steven Ruggles, J. Trent Alexander, Katie Genadek, Ronald Goeken, Matthew B. Schroeder, Matthew Sobek.

Integrated Public Use Microdata Series: Version 5.0 [Machine-readable database]. Minneapolis: University of Minnesota, 2010, https://usa.ipums.org.

U.S. Real GDP (GDPC1): U.S. Department of Commerce Bureau of Economic Analysis. U.S. Total Employment (LNU02000000): U.S. Department of Labor Bureau of Labor Statistics.

## Dr. Leamer's Interpretation of His Regression Results Would Imply that Changes in Chicago Temperature Can be Explained by "Sharing" or "Catch-Up" with Milwaukee Temperature (and Vice Versa)

(Chicago and Milwaukee Daily Temperature Data - January 1995 to May 2013)

<u>Dependent Variable: Change in Chicago Temperature</u>

<u>Dependent Variable: Change in Milwaukee Temperature</u>

Variable	Model 1	Model 2	Model 3		
	Coefficient Estimates				
Change in Milwaukee Temperature	0.94		0.93		
Lagged Difference in Temperature (Milwaukee minus Chicago)	0.48		0.56		
January		-0.20	0.64		
February		0.27	0.91		
March		0.45	1.51		
April		0.28	1.96		
May		0.37	2.20		
June		0.19	1.76		
July		0.11	1.38		
August		-0.17	0.99		
September		-0.40	0.77		
October		-0.30	0.69		
November		-0.43	0.68		
December		-0.20	0.55		
Constant	Yes	No	No		
R-Squared	0.89	0.00	0.89		
Number of Observations	6,633	6,692	6,633		

Variable	Model 1	Model 2	Model 3	
	Coefficient Estimates			
Change in Chicago Temperature	0.94		0.95	
Lagged Difference in Temperature (Chicago minus Milwaukee)	0.46		0.54	
January		-0.19	-0.64	
February		0.25	-0.85	
March		0.34	-1.42	
April		0.27	-1.86	
May		0.37	-2.08	
June		0.26	-1.67	
July		0.11	-1.32	
August		-0.19	-0.98	
September		-0.38	-0.79	
October		-0.31	-0.70	
November		-0.44	-0.70	
December		-0.18	-0.56	
Constant	Yes	No	No	
R-Squared	0.88	0.00	0.89	
Number of Observations	6,633	6,637	6,633	

Source: http://academic.udayton.edu/kissock/http/Weather/citylistUS.htm.

## **Appendix A**

### Dr. Leamer's Evidence Does not Show "Lack of Variation" in Individual Compensation

Materials Dr. Leamer submitted with his earlier reports further demonstrate the variation
in individual compensation. At paragraph 63 of Dr. Leamer's Reply Report, Dr. Leamer cites ar
example of

Attached as Exhibit 1 are tables with data as provided in Dr. Leamer's backup materials showing compensation and job titles for these same 28 Intel employees and 4 Apple employees over time:.

- Page 1 provides the base salaries for each of the 28 Intel employees for the year 2007 to 2011. The columns on the far right show the dollar and percentage increases in base salary for each employee during this period, and the bottom rows show the minimum and maximum base salaries each year and the ranges between them.
- Page 2 provides the total compensation (including base salaries, bonuses, and equity compensation) for each of the 28 Intel employees for the years 2007 to 2011. The columns on the far right show the increases in total compensation for each employee during this period, and the bottom rows show the minimum and maximum total compensation each year and the corresponding ranges.
- Page 3 provides the job titles of each of the 28 Intel employees in each year from 2007 to 2011.
- Pages 4-6 provide this same data for the 4 Apple employees referenced in Dr.
   Leamer's Reply Report for the years 2008 to 2011.

Attached as Exhibit 2 are charts showing graphically how the compensation of these employees changed over time.

## **Base Salary Growth of 28 Similarly Situated Intel Employees**



Note: The Dollar Range Percentage is calculated as the difference between the logs of the maximum and minimum.

Sources: Dr. Leamer's backup data; Dr. Leamer's Reply Report at ¶63 and December 12, 2012 Correction Letter.



Note: The Dollar Range Percentage is calculated as the difference between the logs of the maximum and minimum.

Sources: Dr. Leamer's backup data; Dr. Leamer's Reply Report at ¶63 and December 12, 2012 Correction Letter.

**Job Progressions of 28 Similarly Situated Intel Employees** 



## **Base Salary Growth of 4 Similarly Situated Apple Employees**

2008, Apple,

		Base	Salary		2008 to 20	11 Growth
Employee	2008	2009	2010	2011	Dollars	Percent
Employee 1						
Employee 2						
Employee 3						
Employee 4						
Minimum						
Maximum						
Dollar Range						
Dollar Range Percentage						

Note: The Dollar Range Percentage is calculated as the difference between the logs of the maximum and minimum.

Sources: Dr. Leamer's backup data; Dr. Leamer's Reply Report at ¶64.

## **Total Compensation Growth of 4 Similarly Situated Apple Employees**

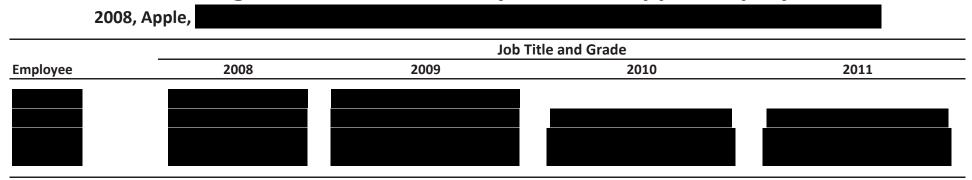
2008, Apple,

		Total Com		2008 to 2011 Growth			
Employee	2008	2009	2010	2011	Dollars	Percent	
Employee 1							
Employee 2							
Employee 3							
Employee 4							
Minimum							
Maximum							
Dollar Range							
Dollar Range Percentage							

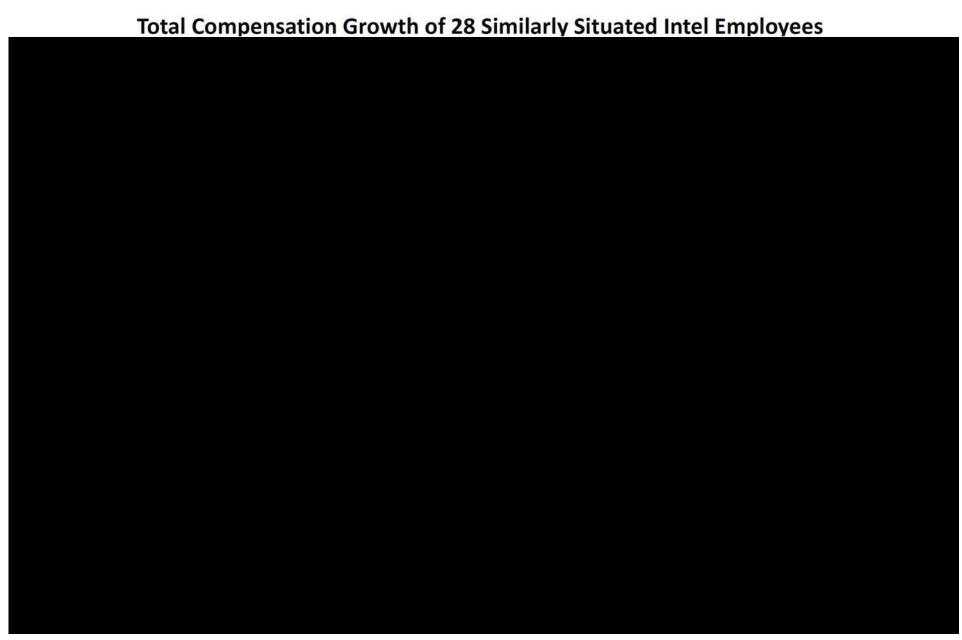
Note: The Dollar Range Percentage is calculated as the difference between the logs of the maximum and minimum.

Sources: Dr. Leamer's backup data; Dr. Leamer's Reply Report at ¶64.

## **Job Progressions of 4 Similarly Situated Apple Employees**



Sources: Dr. Leamer's backup data; Dr. Leamer's Reply Report at ¶64.



Source: Dr. Leamer's backup data; Dr. Leamer's Reply Report at ¶63 and December 12, 2012 Correction Letter.

## **Total Compensation Growth of 9 Similarly Situated Intel Employees**



Notes: Included are the nine employees (out of the 28 similarly situated Intel employees as of 2007) who continued to hold the job title FINANCIAL\_ANALYST\_3 through 2009. Source: Dr. Leamer's backup data; Dr. Leamer's Reply Report at ¶63 and December 12, 2012 Correction Letter.

## **Total Compensation Growth of 4 Similarly Situated Apple Employees**



Source: Dr. Leamer's backup data; Dr. Leamer's Reply Report at ¶63 and December 12, 2012 Correction Letter.

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
001 ADOBE		152	-16%	-57%	-41%	-25%	-18%	-11%	13%	51%
002 ADOBE		121	9%	-30%	-21%	1%	10%	19%	32%	57%
03 ADOBE		113	-3%	-31%	-20%	-11%	-4%	4%	14%	35%
04 ADOBE		122	13%	-21%	-13%	7%	14%	20%	37%	93%
O5 ADOBE		188	6%	-22%	-13%	-5%	3%	16%	33%	64%
06 ADOBE		158	14%	-18%	-13%	1%	10%	25%	46%	221%
7 ADOBE		214	9%	-39%	-27%	-4%	9%	24%	38%	59%
8 ADOBE		219	-10%	-48%	-30%	-19%	-9%	-4%	16%	33%
9 ADOBE		<b>256</b>	7%	-35%	-21%	0%	7%	14%	37%	57%
ADOBE		244	6%	-30%	-23%	1%	5%	12%	33%	48%
ADOBE		155	-16%	-66%	-43%	-28%	-19%	-8%	28%	64%
ADOBE		130	5%	-34%	-26%	-3%	6%	15%	32%	46%
3 ADOBE		121	-2%	-28%	-22%	-11%	-3%	6%	23%	35%
ADOBE		127	11%	-19%	-13%	5%	12%	17%	33%	43%
ADOBE		171	7%	-32%	-14%	-5%	5%	15%	33%	80%
ADOBE		174	15%	-28%	-15%	1%	10%	24%	55%	258%
ADOBE		204	5%	-36%	-27%	-7%	5%	17%	35%	77%
ADOBE		235	-9%	-60%	-30%	-18%	-7%	-3%	14%	36%
ADOBE		252	5%	-62%	-25%	-4%	7%	14%	32%	47%
ADOBE		262	6%	-48%	-28%	1%	6%	15%	32%	48%
ADOBE		35	25%	-28%	-27%	0%	14%	45%	89%	1129
ADOBE		26	22%	-24%	-7%	5%	20%	33%	71%	82%
ADOBE		33	29%	-49%	-30%	17%	32%	47%	74%	89%
ADOBE		32	17%	-44%	-30%	-17%	-7%	26%	158%	179%
ADOBE		33	-7%	-57%	-57%	-33%	-15%	14%	53%	80%
ADOBE		33	62%	7%	9%	33%	52%	72%	157%	176%
L ADOBE		33	-21%	-51%	-46%	-31%	-23%	-17%	8%	72%
ADOBE		31	14%	-13%	-5%	6%	12%	22%	49%	52%
ADOBE		27	1%	-23%	-18%	-8%	1%	11%	23%	24%
ADOBE		30	16%	-6%	0%	11%	16%	24%	33%	36%
5 ADOBE		35	4%	-19%	-15%	-7%	-1%	12%	37%	50%
6 ADOBE		39	23%	-11%	-1%	8%	25%	35%	59%	70%
7 ADOBE		34	3%	-28%	-15%	-6%	1%	9%	29%	30%

					5th	25th		75th	95th	
r Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
8 ADOBE		40	-13%	-31%	-28%	-18%	-12%	-7%	-1%	9%
9 ADOBE		37	10%	-11%	-9%	3%	9%	17%	37%	40%
0 ADOBE		28	4%	-12%	-10%	1%	4%	7%	25%	26%
5 ADOBE		25	5%	-19%	-9%	-3%	1%	8%	35%	48%
6 ADOBE		25	12%	-10%	-6%	6%	12%	18%	26%	37%
ADOBE		30	6%	-20%	-17%	-9%	3%	9%	25%	105%
ADOBE		30	21%	-33%	-16%	4%	29%	33%	51%	63%
ADOBE		25	-4%	-53%	-52%	-13%	0%	7%	25%	31%
DOBE		29	34%	-20%	-18%	28%	38%	43%	68%	79%
OBE		28	30%	-30%	-28%	6%	32%	46%	75%	110%
OBE		34	-27%	-60%	-53%	-43%	-25%	-19%	12%	14%
DBE		29	-8%	-42%	-38%	-23%	-12%	10%	29%	30%
BE		32	13%	-20%	-6%	1%	12%	26%	40%	41%
Ε		27	-5%	-27%	-22%	-13%	-10%	-1%	29%	39%
		29	24%	-25%	-24%	10%	28%	35%	57%	58%
		28	-26%	-51%	-50%	-40%	-24%	-20%	6%	7%
		30	-8%	-40%	-32%	-21%	-12%	9%	26%	26%
ı		39	10%	-17%	-14%	-2%	9%	24%	33%	46%
		57	16%	-25%	-4%	5%	10%	18%	59%	130%
		49	8%	-16%	-11%	-3%	5%	12%	49%	63%
Ξ		52	21%	-9%	-6%	7%	16%	29%	65%	104%
		58	8%	-29%	-11%	-2%	5%	15%	32%	62%
		68	-10%	-39%	-33%	-25%	-15%	-9%	27%	138%
		65	2%	-35%	-19%	-4%	1%	8%	23%	57%
		51	34%	-16%	16%	29%	36%	40%	54%	59%
		25	-26%	-53%	-50%	-46%	-30%	-25%	9%	125%
		31	8%	-14%	-13%	2%	9%	14%	27%	28%
		55	8%	-34%	-18%	-3%	4%	12%	57%	97%
		58	16%	-46%	-9%	7%	14%	26%	51%	56%
Ξ.		68	12%	-15%	-13%	-2%	6%	18%	50%	217%
<u> </u>		67	-10%	-41%	-30%	-20%	-12%	-6%	1%	137%
		64	2%	-55%	-19%	-9%	3%	7%	43%	56%
BE BE		72	33%	-23%	-1%	27%	31%	37%	73%	108%

					5th	25th		75th	95th	
Year Employe	er_ Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2005 ADOBE		28	19%	-24%	-9%	-4%	12%	40%	54%	78%
2008 ADOBE		<b>2</b> 5	-14%	-32%	-31%	-19%	-12%	-7%	-1%	8%
2005 ADOBE		25	14%	-7%	-5%	-1%	9%	29%	48%	51%
2006 ADOBE		29	18%	-9%	2%	8%	14%	24%	40%	57%
2007 ADOBE		29	3%	-18%	-17%	-6%	2%	9%	31%	32%
2008 ADOBE		27	-15%	-31%	-29%	-26%	-15%	-7%	0%	16%
2009 ADOBE		29	4%	-18%	-17%	-3%	5%	11%	26%	34%
2001 ADOBE		32	-20%	-36%	-35%	-23%	-22%	-17%	-7%	3%
2002 ADOBE		26	8%	-15%	-15%	2%	7%	15%	25%	26%
2001 ADOBE		80	-18%	-56%	-38%	-24%	-19%	-11%	5%	11%
2002 ADOBE		62	12%	-18%	-13%	3%	10%	15%	52%	65%
2003 ADOBE		53	-4%	-31%	-25%	-10%	-4%	2%	15%	25%
2004 ADOBE		44	15%	-8%	-5%	10%	16%	21%	32%	40%
2005 ADOBE		66	3%	-20%	-18%	-8%	-1%	12%	35%	53%
2006 ADOBE		59	14%	-12%	-8%	1%	12%	24%	38%	65%
2007 ADOBE		91	4%	-35%	-31%	-16%	7%	18%	40%	67%
2008 ADOBE		109	-13%	-37%	-33%	-27%	-11%	-3%	19%	34%
2009 ADOBE		158	1%	-38%	-24%	-17%	2%	15%	31%	57%
2010 ADOBE		144	3%	-29%	-23%	-7%	5%	11%	24%	44%
2003 ADOBE		26	14%	-33%	-15%	4%	14%	28%	43%	58%
2005 ADOBE		35	20%	-23%	-18%	-4%	12%	27%	76%	135%
2006 ADOBE		33	15%	-27%	-17%	-2%	3%	29%	55%	158%
2007 ADOBE		35	28%	-16%	-11%	11%	32%	40%	57%	78%
2008 ADOBE		38	14%	-35%	-33%	-15%	-12%	43%	131%	136%
2009 ADOBE		38	-20%	-57%	-57%	-38%	-19%	-5%	24%	41%
2010 ADOBE		41	42%	-47%	-33%	20%	47%	55%	135%	196%
2005 ADOBE		31	22%	-7%	-6%	6%	17%	38%	58%	63%
2006 ADOBE		35	16%	-9%	-3%	6%	16%	23%	41%	49%
2007 ADOBE		43	15%	-26%	-22%	4%	14%	27%	45%	53%
2008 ADOBE		37	-11%	-27%	-26%	-18%	-13%	-7%	15%	16%
2009 ADOBE		32	5%	-26%	-18%	0%	4%	11%	34%	38%
2010 ADOBE		30	24%	-23%	-19%	11%	28%	43%	56%	59%
2005 ADOBE		26	7%	-18%	-9%	-5%	3%	10%	16%	94%

					5th	25th		75th	95th	
Year Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2006 ADOBE		27	25%	-12%	0%	12%	23%	40%	47%	55%
2007 ADOBE		31	9%	-29%	-13%	-5%	8%	19%	52%	54%
2008 ADOBE		46	-4%	-27%	-26%	-19%	-8%	0%	25%	167%
2009 ADOBE		44	5%	-54%	-25%	-5%	6%	12%	41%	42%
2010 ADOBE		42	7%	-17%	-13%	-4%	8%	12%	34%	46%
2001 ADOBE		28	-24%	-69%	-52%	-35%	-29%	-14%	8%	16%
2002 ADOBE		37	-8%	-49%	-44%	-22%	-16%	10%	32%	33%
2003 ADOBE		44	11%	-18%	-11%	3%	9%	17%	29%	51%
2004 ADOBE		40	10%	-15%	-11%	6%	9%	15%	26%	28%
2005 ADOBE		41	2%	-23%	-20%	-7%	-1%	6%	45%	49%
2006 ADOBE		35	24%	-9%	2%	14%	20%	32%	59%	65%
2007 ADOBE		48	8%	-24%	-10%	-4%	3%	16%	42%	116%
2008 ADOBE		63	-11%	-41%	-27%	-18%	-9%	-5%	7%	9%
2009 ADOBE		64	9%	-21%	-14%	-3%	6%	15%	39%	71%
2010 ADOBE		48	7%	-68%	-14%	0%	7%	11%	35%	67%
2006 ADOBE		26	28%	-13%	-7%	16%	25%	45%	61%	77%
2007 ADOBE		29	0%	-36%	-33%	-11%	-3%	6%	19%	138%
2008 ADOBE		39	0%	-21%	-21%	-13%	-8%	-4%	74%	74%
009 ADOBE		39	1%	-48%	-47%	-8%	5%	11%	43%	70%
010 ADOBE		42	18%	-67%	-35%	-6%	7%	22%	109%	147%
2006 ADOBE		26	1%	-18%	-16%	-6%	4%	6%	17%	18%
2001 ADOBE		25	-9%	-50%	-50%	-36%	-21%	-5%	114%	139%
2002 ADOBE		31	-3%	-45%	-35%	-22%	-3%	13%	44%	51%
003 ADOBE		32	3%	-24%	-9%	-5%	3%	8%	17%	33%
004 ADOBE		39	12%	-20%	-14%	5%	14%	18%	30%	38%
005 ADOBE		45	3%	-32%	-14%	-8%	-2%	11%	37%	58%
006 ADOBE		50	20%	-13%	-1%	11%	18%	26%	42%	102%
007 ADOBE		52	1%	-24%	-20%	-9%	0%	7%	23%	39%
008 ADOBE		48	-8%	-26%	-19%	-13%	-6%	-4%	6%	11%
009 ADOBE		51	11%	-50%	-10%	-1%	7%	15%	30%	143%
2010 ADOBE		49	6%	-54%	-31%	-2%	5%	10%	67%	84%
2001 ADOBE		135	-18%	-49%	-46%	-36%	-21%	-11%	39%	94%
2002 ADOBE		139	7%	-42%	-27%	-8%	6%	17%	28%	233%

					5th	25th		75th	95th	
Year Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2003 ADOBE		152	-1%	-61%	-28%	-10%	-1%	5%	21%	183%
2004 ADOBE		166	13%	-37%	-17%	3%	14%	20%	37%	122%
2005 ADOBE		175	1%	-39%	-23%	-8%	-2%	5%	27%	136%
2006 ADOBE		218	14%	-56%	-12%	1%	14%	25%	47%	78%
2007 ADOBE		212	6%	-32%	-21%	-4%	4%	15%	37%	97%
2008 ADOBE		220	-8%	-37%	-31%	-18%	-6%	-3%	14%	80%
2009 ADOBE		219	9%	-71%	-15%	1%	7%	15%	40%	83%
2010 ADOBE		203	2%	-59%	-27%	-7%	4%	8%	29%	48%
2001 ADOBE		31	-21%	-51%	-46%	-33%	-24%	-18%	-3%	108%
2003 ADOBE		27	5%	-51%	-21%	-3%	5%	16%	28%	42%
2004 ADOBE		26	9%	-3%	-1%	2%	10%	15%	21%	26%
2005 ADOBE		39	14%	-23%	-18%	-4%	10%	31%	61%	64%
2006 ADOBE		42	12%	-22%	-19%	1%	12%	20%	40%	46%
2007 ADOBE		57	11%	-24%	-19%	-2%	9%	23%	44%	58%
2008 ADOBE		67	-13%	-35%	-29%	-22%	-17%	-6%	17%	42%
2009 ADOBE		60	8%	-22%	-16%	-4%	3%	12%	47%	144%
2010 ADOBE		73	31%	-31%	-22%	19%	35%	39%	69%	111%
2005 ADOBE		25	11%	-16%	-16%	5%	9%	19%	31%	31%
2006 ADOBE		31	1%	-15%	-13%	-5%	3%	7%	16%	19%
2007 ADOBE		32	7%	-15%	-11%	3%	7%	12%	33%	36%
2008 ADOBE		32	-7%	-24%	-20%	-10%	-5%	-2%	4%	4%
2009 ADOBE		30	11%	-9%	-9%	5%	9%	13%	33%	33%
2001 ADOBE		35	-14%	-35%	-35%	-23%	-13%	-7%	3%	9%
2001 ADOBE		125	-15%	-40%	-34%	-24%	-17%	-10%	9%	53%
2002 ADOBE		112	12%	-25%	-20%	2%	10%	21%	45%	58%
2003 ADOBE		95	-4%	-37%	-24%	-11%	-1%	2%	14%	25%
2004 ADOBE		83	13%	-33%	-17%	7%	14%	23%	38%	52%
2005 ADOBE		123	6%	-27%	-20%	-8%	5%	16%	37%	45%
2006 ADOBE		110	11%	-16%	-8%	0%	6%	21%	38%	49%
2007 ADOBE		96	7%	-32%	-26%	0%	8%	18%	37%	70%
2008 ADOBE		89	-12%	-37%	-33%	-17%	-12%	-8%	6%	13%
2009 ADOBE		65	8%	-23%	-18%	3%	9%	13%	27%	53%
2010 ADOBE		39	6%	-26%	-23%	0%	5%	13%	30%	32%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
01 ADOBE		73	-20%	-56%	-43%	-28%	-22%	-14%	7%	47%
02 ADOBE		74	9%	-30%	-24%	1%	9%	19%	36%	47%
03 ADOBE		87	-4%	-30%	-24%	-13%	-3%	3%	17%	35%
04 ADOBE		101	16%	-17%	-2%	10%	15%	21%	35%	65%
05 ADOBE		163	1%	-27%	-15%	-9%	-2%	7%	29%	81%
06 ADOBE		191	14%	-18%	-15%	2%	10%	26%	51%	70%
7 ADOBE		173	4%	-38%	-31%	-2%	5%	13%	26%	45%
8 ADOBE		171	-9%	-30%	-23%	-17%	-8%	-5%	5%	22%
9 ADOBE		151	12%	-23%	-9%	5%	8%	15%	36%	58%
10 ADOBE		124	5%	-33%	-17%	1%	4%	9%	30%	48%
04 ADOBE		35	13%	-21%	-16%	9%	15%	19%	33%	38%
5 ADOBE		44	2%	-16%	-16%	-6%	1%	6%	28%	29%
6 ADOBE		50	20%	-21%	-20%	7%	19%	31%	57%	63%
7 ADOBE		46	5%	-34%	-25%	-9%	-1%	19%	44%	74%
ADOBE		49	-10%	-33%	-30%	-17%	-7%	-4%	5%	13%
ADOBE		51	9%	-15%	-12%	1%	7%	11%	52%	64%
ADOBE		46	6%	-32%	-30%	1%	6%	16%	26%	26%
DOBE		26	10%	-31%	-11%	-4%	3%	10%	22%	175%
ADOBE		30	6%	-19%	-18%	-1%	4%	15%	40%	48%
ADOBE		29	-3%	-21%	-20%	-6%	-3%	2%	12%	17%
ADOBE		27	4%	-8%	-8%	-4%	3%	10%	21%	22%
ADOBE		32	7%	-8%	-7%	3%	7%	11%	16%	21%
ADOBE		43	2%	-13%	-10%	-5%	-1%	8%	26%	29%
ADOBE		48	9%	-27%	-21%	-1%	8%	16%	42%	54%
ADOBE		56	3%	-34%	-23%	-3%	4%	11%	27%	34%
ADOBE		26	-26%	-45%	-45%	-30%	-26%	-22%	-1%	-1%
ADOBE		32	-1%	-30%	-23%	-9%	-2%	3%	25%	27%
ADOBE		25	18%	-13%	-13%	5%	17%	22%	73%	73%
7 ADOBE		27	-2%	-40%	-30%	-17%	-1%	11%	25%	43%
APPLE		46	17%	-30%	-26%	-1%	17%	33%	62%	79%
APPLE		79	5%	-43%	-39%	-17%	5%	25%	51%	124%
APPLE		28	4%	-50%	-43%	-18%	-6%	29%	55%	98%
9 APPLE		97	11%	-46%	-33%	-10%	13%	26%	62%	101%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
010 APPLE		177	2%	-64%	-46%	-19%	-1%	17%	60%	160%
009 APPLE		56	26%	-32%	-19%	-7%	14%	25%	186%	260%
010 APPLE		105	3%	-69%	-56%	-27%	-4%	15%	88%	240%
010 APPLE		32	11%	-59%	-44%	-22%	2%	21%	218%	232%
.008 APPLE		35	-19%	-54%	-54%	-35%	-26%	-10%	48%	59%
008 APPLE		40	-28%	-67%	-64%	-51%	-41%	-8%	45%	47%
005 APPLE		31	20%	-27%	-14%	-1%	5%	45%	110%	110%
006 APPLE		29	35%	-37%	-21%	0%	20%	56%	129%	130%
007 APPLE		30	19%	-38%	-30%	-23%	4%	52%	115%	133%
008 APPLE		42	8%	-48%	-48%	-23%	3%	37%	90%	106%
009 APPLE		38	24%	-46%	-22%	1%	8%	42%	103%	196%
010 APPLE		50	22%	-40%	-32%	-4%	11%	37%	99%	222%
05 APPLE		34	21%	-74%	-44%	-3%	27%	47%	80%	116%
06 APPLE		40	43%	-30%	-13%	12%	34%	59%	161%	167%
07 APPLE		50	-7%	-56%	-45%	-31%	-19%	6%	51%	166%
08 APPLE		49	16%	-61%	-51%	-4%	10%	41%	77%	93%
09 APPLE		43	21%	-35%	-18%	1%	13%	40%	69%	93%
10 APPLE		50	7%	-47%	-46%	-6%	5%	21%	50%	173%
006 APPLE		26	44%	-52%	-39%	8%	34%	97%	123%	131%
07 APPLE		30	-6%	-61%	-50%	-31%	-20%	5%	54%	259%
08 APPLE		32	11%	-65%	-45%	-1%	14%	22%	48%	102%
09 APPLE		39	13%	-38%	-37%	-4%	7%	23%	94%	100%
10 APPLE		44	9%	-34%	-30%	-6%	4%	19%	63%	77%
01 APPLE		27	-48%	-74%	-71%	-60%	-50%	-36%	-25%	4%
02 APPLE		31	47%	-64%	-40%	26%	44%	69%	145%	173%
03 APPLE		34	37%	-26%	-20%	16%	22%	39%	144%	204%
004 APPLE		37	35%	-64%	-20%	-4%	29%	60%	159%	176%
002 APPLE		27	11%	-4%	-3%	3%	5%	22%	33%	40%
005 APPLE		98	11%	-34%	-24%	-2%	3%	24%	64%	144%
06 APPLE		135	43%	-45%	-21%	5%	33%	72%	137%	190%
07 APPLE		161	-10%	-59%	-45%	-29%	-15%	3%	36%	149%
08 APPLE		176	15%	-54%	-33%	-7%	10%	30%	89%	181%
009 APPLE		205	16%	-66%	-32%	-2%	9%	31%	75%	232%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
10 APPLE		251	13%	-55%	-41%	-8%	6%	23%	90%	203%
007 APPLE		46	-2%	-66%	-63%	-30%	-12%	4%	148%	241%
008 APPLE		60	3%	-68%	-66%	-37%	3%	37%	62%	193%
009 APPLE		84	20%	-48%	-37%	-4%	11%	37%	104%	228%
10 APPLE		116	5%	-61%	-45%	-16%	5%	19%	61%	167%
01 APPLE		27	-14%	-46%	-26%	-20%	-13%	-10%	0%	4%
002 APPLE		25	16%	-5%	-5%	10%	14%	24%	33%	36%
003 APPLE		31	4%	-19%	-9%	-3%	5%	12%	23%	24%
004 APPLE		34	18%	-22%	-10%	1%	13%	28%	60%	63%
01 APPLE		87	-18%	-49%	-47%	-23%	-16%	-9%	-1%	5%
02 APPLE		92	10%	-33%	-15%	1%	12%	20%	30%	44%
O3 APPLE		102	9%	-16%	-14%	-2%	10%	18%	31%	64%
04 APPLE		110	14%	-30%	-14%	-2%	13%	26%	49%	102%
O APPLE		28	7%	-43%	-40%	-14%	4%	23%	69%	74%
1 APPLE		82	-23%	-71%	-52%	-30%	-21%	-15%	1%	7%
2 APPLE		88	18%	-35%	-19%	1%	14%	27%	83%	117%
3 APPLE		101	16%	-34%	-17%	-1%	12%	23%	85%	189%
APPLE		111	23%	-40%	-19%	4%	23%	34%	70%	144%
0 APPLE		25	2%	-34%	-31%	-14%	-3%	13%	55%	72%
) APPLE		29	7%	-40%	-28%	-11%	3%	16%	58%	89%
8 APPLE		28	18%	-62%	-38%	-19%	19%	33%	113%	151%
APPLE		27	45%	-29%	-7%	5%	24%	57%	171%	316%
O APPLE		30	7%	-33%	-23%	-13%	8%	17%	49%	61%
5 APPLE		35	25%	-14%	-1%	5%	10%	23%	118%	193%
6 APPLE		26	29%	-23%	-22%	-2%	3%	36%	194%	222%
APPLE		80	13%	-41%	-23%	-4%	4%	20%	90%	138%
6 APPLE		78	42%	-40%	-19%	3%	34%	65%	127%	171%
7 APPLE		<b>7</b> 5	6%	-39%	-32%	-10%	3%	21%	57%	102%
3 APPLE		102	12%	-42%	-37%	-3%	3%	27%	71%	131%
9 APPLE		103	26%	-37%	-25%	0%	15%	52%	93%	158%
O APPLE		114	25%	-46%	-33%	0%	17%	48%	103%	158%
1 APPLE		334	-9%	-47%	-34%	-17%	-5%	-1%	6%	49%
2 APPLE		365	9%	-23%	-14%	1%	7%	16%	31%	97%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
03 APPLE		338	2%	-19%	-11%	-4%	2%	8%	16%	33%
04 APPLE		342	9%	-8%	-1%	3%	6%	12%	30%	72%
10 APPLE		49	14%	-50%	-36%	-9%	9%	26%	81%	175%
10 APPLE		26	-7%	-43%	-41%	-19%	-3%	3%	26%	27%
08 APPLE		26	10%	-22%	-21%	-16%	3%	15%	66%	82%
08 APPLE		27	13%	-33%	-21%	-4%	12%	30%	59%	72%
9 APPLE		42	38%	-30%	-28%	-3%	16%	53%	145%	327%
O APPLE		53	15%	-39%	-38%	-12%	5%	29%	95%	187%
APPLE		25	11%	-48%	-41%	-20%	-1%	14%	170%	204%
APPLE		36	8%	-49%	-42%	-24%	2%	18%	78%	253%
APPLE		36	41%	-33%	-31%	8%	33%	72%	127%	152%
APPLE		54	7%	-61%	-38%	-20%	5%	20%	68%	180%
) APPLE		31	-2%	-61%	-49%	-23%	-2%	7%	56%	77%
APPLE		34	24%	-22%	-17%	16%	24%	35%	42%	61%
APPLE		26	16%	-8%	-6%	1%	11%	22%	37%	89%
APPLE		40	1%	-32%	-32%	-8%	3%	10%	26%	29%
PPLE		25	41%	-27%	-6%	9%	34%	64%	110%	176%
PPLE		30	24%	-37%	-35%	-3%	25%	40%	78%	112%
PPLE		33	15%	-43%	-38%	-13%	-2%	12%	136%	199%
PPLE		32	21%	-25%	-22%	10%	21%	34%	57%	58%
APPLE		29	9%	-7%	-7%	-2%	9%	12%	39%	43%
APPLE		33	12%	-27%	-14%	-2%	7%	19%	43%	133%
APPLE		31	-10%	-41%	-36%	-16%	-7%	-1%	8%	24%
APPLE		40	7%	-21%	-20%	-8%	7%	18%	44%	53%
APPLE		37	3%	-10%	-9%	-4%	3%	7%	20%	21%
APPLE		45	12%	-26%	-19%	-1%	8%	25%	45%	69%
APPLE		25	29%	-1%	1%	12%	21%	39%	88%	88%
APPLE		25	-12%	-51%	-42%	-27%	-20%	-4%	47%	109%
APPLE		30	14%	-39%	-35%	11%	14%	24%	39%	40%
APPLE		31	9%	-40%	-33%	-5%	8%	23%	55%	61%
APPLE		31	39%	-18%	-12%	6%	17%	38%	207%	225%
APPLE		32	-7%	-36%	-27%	-12%	-1%	1%	6%	12%
APPLE		27	10%	-1%	1%	4%	7%	14%	25%	42%

					5th	25th		75th	95th	
Year Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2003 APPLE		25	1%	-28%	-7%	-3%	1%	6%	13%	16%
2004 APPLE		28	7%	-3%	-3%	4%	5%	15%	17%	17%
2007 APPLE		26	18%	-12%	-7%	3%	6%	34%	59%	70%
2008 APPLE		31	20%	-20%	-16%	3%	5%	38%	83%	103%
2009 APPLE		28	25%	-3%	-2%	3%	9%	40%	96%	137%
2008 APPLE		41	20%	-34%	-32%	2%	21%	40%	64%	80%
2009 APPLE		30	9%	-32%	-29%	-16%	1%	24%	60%	84%
2010 APPLE		48	4%	-33%	-29%	-4%	3%	11%	37%	53%
2007 APPLE		28	-6%	-39%	-38%	-26%	-9%	4%	45%	57%
2008 APPLE		54	9%	-34%	-32%	-13%	5%	31%	69%	71%
2009 APPLE		53	20%	-34%	-29%	3%	14%	37%	69%	79%
2010 APPLE		96	6%	-39%	-31%	-6%	3%	14%	51%	115%
2010 APPLE		27	20%	-41%	-24%	-7%	4%	23%	136%	138%
2010 APPLE		26	21%	-29%	-13%	3%	10%	25%	78%	103%
2005 APPLE		26	13%	-21%	-14%	-5%	4%	24%	46%	108%
2007 APPLE		29	11%	-43%	-33%	-15%	0%	31%	97%	114%
2008 APPLE		32	3%	-46%	-44%	-10%	3%	13%	45%	50%
2009 APPLE		33	34%	-27%	-26%	5%	28%	48%	145%	217%
2010 APPLE		41	24%	-41%	-33%	3%	18%	37%	110%	146%
2007 APPLE		34	2%	-49%	-48%	-20%	0%	11%	84%	95%
2008 APPLE		35	9%	-52%	-51%	-23%	3%	33%	99%	109%
2009 APPLE		55	21%	-34%	-18%	0%	13%	41%	83%	128%
2010 APPLE		62	13%	-45%	-42%	-10%	13%	30%	75%	143%
2009 APPLE		28	31%	-27%	-13%	3%	19%	48%	92%	205%
2010 APPLE		32	15%	-47%	-45%	-5%	15%	35%	70%	89%
2009 APPLE		31	15%	-53%	-29%	-3%	8%	41%	59%	148%
2010 APPLE		32	26%	-30%	-29%	-21%	15%	45%	188%	220%
2007 APPLE		28	58%	-19%	0%	5%	19%	71%	208%	208%
2008 APPLE		27	12%	-62%	-49%	1%	9%	31%	64%	100%
2009 APPLE		33	21%	-83%	-81%	-14%	16%	66%	119%	123%
2010 APPLE		31	65%	3%	3%	12%	70%	92%	146%	146%
2005 APPLE		85	14%	-27%	-17%	-4%	4%	26%	61%	109%
2006 APPLE		87	42%	-50%	-20%	4%	31%	67%	121%	426%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
007 APPLE		110	1%	-51%	-37%	-26%	-4%	18%	52%	149%
008 APPLE		118	14%	-46%	-36%	-1%	11%	31%	67%	105%
009 APPLE		129	18%	-73%	-34%	-2%	10%	36%	80%	175%
010 APPLE		175	27%	-53%	-29%	0%	15%	41%	129%	229%
005 APPLE		120	13%	-41%	-26%	-6%	9%	26%	77%	121%
006 APPLE		140	29%	-39%	-30%	0%	26%	53%	118%	229%
007 APPLE		162	-4%	-59%	-45%	-25%	-11%	4%	57%	167%
008 APPLE		177	13%	-57%	-38%	2%	16%	26%	53%	131%
009 APPLE		210	10%	-79%	-30%	-1%	7%	20%	53%	119%
010 APPLE		258	10%	-52%	-38%	-6%	5%	23%	64%	149%
005 APPLE		47	20%	-50%	-23%	-1%	22%	34%	75%	96%
006 APPLE		45	42%	-43%	-39%	0%	33%	71%	127%	259%
007 APPLE		51	6%	-57%	-46%	-24%	-10%	6%	117%	506%
008 APPLE		60	7%	-78%	-41%	-12%	7%	21%	66%	131%
009 APPLE		83	13%	-28%	-21%	-2%	7%	25%	70%	80%
010 APPLE		88	9%	-46%	-36%	-7%	7%	24%	62%	109%
005 APPLE		33	15%	-43%	-17%	2%	6%	26%	93%	113%
06 APPLE		38	23%	-16%	-11%	0%	4%	53%	83%	84%
07 APPLE		46	9%	-42%	-40%	-12%	2%	14%	74%	114%
008 APPLE		42	13%	-26%	-15%	-1%	4%	26%	69%	78%
009 APPLE		40	17%	-29%	-26%	0%	11%	31%	73%	143%
010 APPLE		48	17%	-22%	-9%	3%	14%	28%	54%	69%
005 APPLE		40	8%	-28%	-22%	-4%	4%	7%	62%	156%
006 APPLE		54	34%	-26%	-26%	3%	12%	67%	107%	283%
007 APPLE		63	3%	-49%	-44%	-23%	-1%	21%	48%	282%
008 APPLE		73	10%	-50%	-28%	-9%	8%	27%	63%	90%
009 APPLE		79	11%	-47%	-27%	-3%	7%	26%	54%	98%
010 APPLE		78	14%	-33%	-27%	0%	8%	20%	89%	162%
005 APPLE		26	22%	-23%	-19%	-1%	11%	46%	68%	85%
006 APPLE		30	49%	-42%	-40%	14%	42%	81%	129%	226%
07 APPLE		38	-10%	-65%	-60%	-39%	-16%	7%	77%	199%
008 APPLE		38	6%	-70%	-40%	-7%	7%	23%	42%	44%
009 APPLE		44	22%	-34%	-32%	-3%	12%	45%	72%	157%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
010 APPLE		45	3%	-42%	-27%	-3%	2%	11%	26%	78%
005 APPLE		126	10%	-16%	-3%	3%	5%	12%	55%	112%
006 APPLE		129	17%	-27%	-4%	3%	8%	16%	83%	171%
007 APPLE		113	14%	-36%	0%	2%	5%	19%	53%	85%
008 APPLE		109	9%	-31%	-12%	2%	5%	9%	50%	103%
009 APPLE		95	20%	-53%	-4%	3%	7%	15%	100%	133%
010 APPLE		72	66%	0%	1%	29%	76%	86%	138%	154%
005 APPLE		94	8%	-26%	-19%	-11%	6%	16%	51%	168%
006 APPLE		133	26%	-33%	-21%	0%	7%	56%	112%	152%
007 APPLE		154	7%	-51%	-37%	-11%	4%	16%	65%	232%
08 APPLE		183	10%	-49%	-34%	-2%	6%	30%	50%	86%
009 APPLE		197	18%	-76%	-29%	0%	5%	43%	90%	229%
)10 APPLE		255	8%	-59%	-40%	-20%	6%	21%	80%	206%
05 APPLE		33	20%	-8%	-1%	7%	14%	38%	51%	65%
06 APPLE		47	53%	-40%	-35%	-1%	41%	96%	154%	234%
07 APPLE		65	1%	-61%	-54%	-23%	-4%	6%	108%	189%
08 APPLE		80	18%	-65%	-49%	2%	20%	38%	77%	80%
09 APPLE		92	18%	-53%	-34%	0%	15%	28%	86%	147%
10 APPLE		106	4%	-53%	-47%	-14%	3%	16%	81%	107%
006 APPLE		29	22%	0%	1%	8%	13%	29%	74%	77%
005 APPLE		111	19%	-11%	-6%	3%	9%	25%	85%	118%
06 APPLE		115	20%	-23%	-6%	3%	9%	25%	88%	126%
07 APPLE		132	24%	-49%	-18%	4%	11%	36%	98%	144%
08 APPLE		163	23%	-31%	-5%	4%	10%	18%	112%	213%
009 APPLE		208	43%	-39%	-2%	6%	17%	83%	125%	181%
010 APPLE		188	102%	6%	15%	75%	92%	126%	212%	271%
005 APPLE		279	10%	-26%	-18%	-6%	1%	19%	66%	106%
06 APPLE		267	25%	-49%	-19%	0%	7%	50%	106%	210%
007 APPLE		316	16%	-66%	-30%	0%	6%	26%	89%	189%
08 APPLE		350	18%	-48%	-34%	0%	7%	28%	94%	353%
009 APPLE		431	32%	-81%	-26%	2%	20%	55%	116%	427%
010 APPLE		548	17%	-57%	-35%	-4%	10%	31%	88%	256%
005 APPLE		226	14%	-61%	-23%	-5%	6%	26%	65%	133%

				5th	25th		75th	95th	
ar Employer Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
06 APPLE	264	28%	-44%	-28%	-2%	19%	50%	112%	236%
7 APPLE	285	-1%	-58%	-45%	-21%	-1%	7%	55%	182%
08 APPLE	323	12%	-78%	-33%	-2%	6%	26%	67%	193%
9 APPLE	402	17%	-67%	-37%	-3%	9%	34%	87%	352%
O APPLE	472	12%	-56%	-39%	-7%	7%	23%	86%	201%
5 APPLE	56	36%	-39%	-24%	6%	28%	46%	112%	315%
APPLE	66	24%	-41%	-35%	2%	22%	47%	74%	115%
APPLE	78	-7%	-51%	-49%	-26%	-14%	5%	65%	82%
PPLE	87	14%	-49%	-32%	1%	12%	23%	77%	78%
PPLE	104	12%	-60%	-29%	-3%	4%	29%	70%	123%
PPLE	136	17%	-79%	-29%	0%	12%	25%	93%	186%
PPLE	25	49%	-27%	-15%	10%	48%	88%	121%	133%
PPLE	26	30%	-20%	-16%	2%	14%	37%	149%	157%
PLE	53	25%	-25%	-20%	1%	22%	42%	97%	111%
LE	58	32%	-54%	-38%	2%	33%	64%	106%	121%
	73	-1%	-62%	-44%	-18%	-5%	12%	53%	142%
	83	21%	-40%	-23%	4%	20%	35%	72%	85%
	98	31%	-48%	-36%	0%	14%	43%	175%	306%
E.	118	11%	-80%	-44%	-5%	8%	27%	63%	112%
LE	44	33%	-65%	-26%	10%	29%	44%	111%	207%
LE	49	36%	-39%	-31%	15%	29%	60%	108%	150%
LE	53	-17%	-66%	-46%	-29%	-18%	-9%	26%	72%
.E	57	21%	-59%	-38%	6%	19%	39%	75%	104%
LE	72	20%	-53%	-28%	-10%	10%	35%	90%	378%
PLE	82	15%	-61%	-46%	-1%	14%	26%	80%	269%
PLE	29	15%	-37%	-34%	3%	12%	27%	69%	136%
PLE	30	10%	-49%	-45%	-29%	-4%	13%	139%	171%
PLE	28	24%	-38%	-33%	3%	24%	43%	90%	111%
PLE	38	17%	-32%	-16%	-5%	9%	30%	81%	119%
PLE	50	22%	-28%	-16%	5%	17%	38%	67%	99%
PLE	27	51%	0%	1%	26%	39%	59%	123%	262%
PPLE	33	48%	-49%	-34%	3%	36%	59%	164%	443%
APPLE	37	-7%	-67%	-47%	-22%	-15%	7%	44%	73%

					5th	25th		75th	95th	
ır Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
8 APPLE		36	22%	-52%	-39%	3%	13%	36%	173%	175%
9 APPLE		44	6%	-66%	-30%	-15%	-1%	14%	64%	140%
.O APPLE		47	29%	-59%	-33%	12%	25%	44%	108%	134%
5 APPLE		26	32%	-16%	-9%	7%	30%	50%	83%	91%
6 APPLE		27	39%	-44%	-27%	-7%	31%	96%	125%	128%
7 APPLE		36	13%	-41%	-39%	-14%	0%	17%	149%	174%
8 APPLE		41	16%	-39%	-38%	5%	14%	38%	67%	101%
9 APPLE		33	8%	-56%	-50%	-8%	10%	28%	68%	91%
) APPLE		38	10%	-27%	-25%	-8%	10%	26%	49%	77%
APPLE		28	53%	-45%	-33%	9%	42%	75%	241%	245%
APPLE		26	-4%	-52%	-35%	-21%	-7%	6%	47%	63%
APPLE		25	16%	-45%	-34%	1%	16%	29%	57%	115%
APPLE		30	28%	-10%	-7%	7%	18%	48%	82%	102%
APPLE		32	20%	-12%	-12%	-2%	14%	25%	79%	122%
APPLE		38	20%	-55%	-44%	-12%	23%	48%	101%	138%
APPLE		36	17%	-60%	-54%	-9%	12%	33%	119%	210%
PPLE		46	13%	-6%	0%	0%	3%	26%	45%	94%
PLE		46	5%	-26%	-23%	0%	4%	6%	58%	68%
PLE		55	16%	-37%	-26%	-1%	4%	38%	71%	103%
PLE		58	0%	-38%	-31%	-22%	2%	17%	37%	45%
PPLE		67	10%	-32%	-28%	-3%	3%	18%	60%	91%
APPLE		73	1%	-44%	-40%	-18%	2%	10%	49%	80%
APPLE		30	15%	-37%	-32%	-1%	6%	35%	71%	90%
APPLE		32	10%	-39%	-30%	-4%	4%	15%	81%	95%
APPLE		25	15%	-41%	-36%	1%	8%	29%	67%	116%
APPLE		25	15%	4%	5%	8%	10%	13%	58%	64%
APPLE		30	30%	-11%	-9%	3%	9%	60%	127%	152%
APPLE		53	21%	-50%	-27%	1%	6%	27%	108%	165%
PPLE		31	10%	-41%	-40%	-17%	8%	26%	73%	118%
PPLE		46	26%	-37%	-25%	6%	24%	45%	70%	124%
APPLE		37	30%	-39%	-37%	3%	22%	50%	129%	145%
APPLE		27	10%	-42%	-36%	-32%	0%	22%	90%	166%
GOOGLE		27	53%	-81%	-78%	-67%	4%	76%	531%	536%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
06 GOOGLE		46	312%	-88%	-65%	25%	130%	394%	1578%	2655%
07 GOOGLE		58	-43%	-97%	-94%	-91%	-78%	-11%	108%	242%
08 GOOGLE		73	294%	-88%	-53%	95%	220%	395%	878%	1180%
09 GOOGLE		72	-12%	-88%	-80%	-64%	-46%	-6%	214%	390%
10 GOOGLE		90	54%	-94%	-74%	-11%	29%	91%	211%	907%
10 GOOGLE		33	32%	-59%	-57%	-41%	30%	84%	155%	281%
08 GOOGLE		31	65%	-47%	-5%	7%	49%	87%	216%	244%
09 GOOGLE		28	34%	-50%	-42%	-23%	-3%	7%	220%	519%
06 GOOGLE		47	77%	-73%	-58%	-28%	16%	44%	238%	1517%
07 GOOGLE		70	3%	-90%	-72%	-54%	-2%	14%	124%	443%
08 GOOGLE		88	94%	-55%	-26%	34%	66%	107%	284%	754%
09 GOOGLE		82	-17%	-79%	-67%	-42%	-26%	-8%	84%	144%
10 GOOGLE		88	51%	-85%	-60%	-5%	23%	46%	238%	1335%
5 GOOGLE		28	-12%	-82%	-72%	-66%	-48%	45%	95%	110%
6 GOOGLE		50	88%	-77%	-74%	-43%	13%	62%	843%	1026%
7 GOOGLE		65	-8%	-93%	-84%	-48%	-6%	15%	72%	256%
8 GOOGLE		61	134%	-50%	-32%	76%	99%	150%	419%	660%
GOOGLE		83	-17%	-78%	-73%	-59%	-37%	-18%	91%	774%
0 GOOGLE		92	42%	-74%	-45%	3%	30%	68%	190%	307%
3 GOOGLE		35	-47%	-81%	-81%	-76%	-64%	-61%	50%	351%
4 GOOGLE		83	-52%	-85%	-80%	-71%	-61%	-49%	0%	285%
GOOGLE		149	-59%	-83%	-78%	-69%	-63%	-57%	-35%	82%
6 GOOGLE		144	-19%	-77%	-53%	-43%	-29%	-14%	64%	149%
7 GOOGLE		209	-41%	-65%	-61%	-56%	-48%	-40%	20%	167%
8 GOOGLE		156	7%	-52%	-44%	-17%	-7%	8%	97%	174%
9 GOOGLE		112	-12%	-59%	-47%	-42%	-28%	-6%	64%	464%
LO GOOGLE		375	-11%	-80%	-59%	-34%	-24%	-5%	73%	803%
04 GOOGLE		32	-72%	-91%	-91%	-81%	-78%	-72%	-27%	45%
5 GOOGLE		29	-56%	-88%	-84%	-74%	-68%	-62%	23%	26%
06 GOOGLE		40	19%	-85%	-76%	-53%	-31%	45%	290%	645%
04 GOOGLE		45	-60%	-87%	-83%	-77%	-69%	-57%	-13%	63%
05 GOOGLE		95	-65%	-93%	-83%	-75%	-69%	-63%	-43%	56%
06 GOOGLE		125	15%	-77%	-63%	-45%	-27%	55%	137%	1063%

					5th	25th		75th	95th	
ar Employer .	ob Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
07 GOOGLE		116	-40%	-93%	-68%	-61%	-54%	-40%	39%	152%
08 GOOGLE		75	44%	-88%	-54%	-20%	4%	96%	143%	591%
09 GOOGLE		56	-6%	-77%	-70%	-49%	-9%	15%	107%	159%
10 GOOGLE		81	-17%	-79%	-73%	-45%	-33%	5%	100%	113%
09 GOOGLE		25	-4%	-42%	-26%	-20%	-10%	5%	60%	76%
10 GOOGLE		29	69%	-79%	-67%	-37%	26%	102%	325%	833%
05 GOOGLE		35	-62%	-62%	-62%	-62%	-62%	-62%	-62%	-62%
06 GOOGLE		48	4968%	-30%	-30%	-30%	4968%	9966%	9966%	9966%
08 GOOGLE		25	27%	-26%	-15%	1%	35%	43%	52%	59%
10 GOOGLE		40	36%	2%	3%	23%	29%	43%	88%	156%
09 GOOGLE		29	-14%	-38%	-38%	-22%	-14%	-3%	7%	7%
10 GOOGLE		51	20%	-29%	-28%	18%	24%	32%	52%	57%
08 GOOGLE		25	36%	-48%	-43%	3%	36%	67%	88%	124%
9 GOOGLE		30	2%	-41%	-39%	-18%	-6%	5%	61%	96%
LO GOOGLE		39	17%	-31%	-27%	-6%	21%	33%	74%	83%
7 GOOGLE		29	-13%	-51%	-50%	-32%	-11%	-3%	43%	48%
8 GOOGLE		26	41%	-2%	1%	29%	38%	59%	82%	97%
.0 GOOGLE		26	32%	-36%	0%	16%	20%	35%	79%	229%
02 GOOGLE		30	76%	-6%	-2%	-2%	53%	130%	241%	280%
02 GOOGLE		31	98%	-6%	-4%	43%	68%	106%	305%	444%
03 GOOGLE		26	-1%	-41%	-34%	-27%	-3%	21%	27%	76%
4 GOOGLE		49	91%	-62%	-8%	11%	45%	82%	169%	1258%
5 GOOGLE		132	3%	-73%	-67%	-55%	15%	46%	70%	137%
6 GOOGLE		518	37%	-68%	-50%	-22%	10%	51%	115%	1877%
7 GOOGLE		487	-15%	-92%	-50%	-38%	-22%	6%	33%	214%
8 GOOGLE		490	28%	-57%	-22%	-4%	16%	59%	97%	328%
09 GOOGLE		334	8%	-43%	-37%	-12%	5%	21%	72%	254%
10 GOOGLE		518	10%	-73%	-31%	-18%	3%	28%	81%	294%
03 GOOGLE		62	15%	-68%	-55%	-30%	3%	26%	60%	951%
04 GOOGLE		115	90%	-74%	-49%	6%	39%	102%	433%	1202%
05 GOOGLE		261	19%	-82%	-68%	-5%	16%	39%	98%	608%
06 GOOGLE		774	34%	-81%	-47%	-20%	19%	50%	120%	1662%
07 GOOGLE		1,201	-6%	-92%	-54%	-34%	-4%	11%	45%	560%

					5th	25th		75th	95th	
r Employer _	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
8 GOOGLE		1,438	47%	-63%	-20%	22%	48%	67%	110%	537%
9 GOOGLE		1,476	-2%	-82%	-41%	-22%	-6%	8%	47%	380%
O GOOGLE		1,848	22%	-75%	-32%	-5%	23%	41%	81%	789%
6 GOOGLE		28	21%	-50%	-27%	-19%	15%	49%	89%	129%
7 GOOGLE		45	-15%	-61%	-55%	-39%	-16%	10%	34%	47%
8 GOOGLE		67	31%	-42%	-30%	-11%	32%	63%	104%	130%
9 GOOGLE		94	2%	-40%	-35%	-18%	-4%	23%	51%	98%
O GOOGLE		96	27%	-41%	-30%	-17%	31%	61%	97%	114%
GOOGLE		31	2%	-58%	-52%	-15%	-3%	15%	67%	94%
GOOGLE		56	30%	-47%	-43%	8%	42%	53%	70%	109%
GOOGLE		88	4%	-54%	-37%	-19%	-3%	13%	70%	116%
GOOGLE		124	29%	-40%	-32%	16%	27%	42%	86%	241%
GOOGLE		25	26%	-3%	0%	17%	25%	33%	58%	58%
OOGLE		25	71%	-8%	15%	35%	55%	67%	111%	479%
OOGLE		<b>25</b>	-20%	-82%	-39%	-33%	-17%	-7%	3%	30%
OGLE		29	34%	6%	9%	22%	29%	43%	69%	77%
GLE		30	290%	41%	47%	94%	172%	482%	949%	989%
GLE		42	45%	-75%	-63%	-43%	-26%	21%	43%	2551%
OGLE		88	110%	-82%	-9%	2%	26%	123%	745%	914%
OGLE		192	25%	-87%	-70%	-12%	13%	36%	141%	918%
OGLE		358	83%	-70%	-14%	8%	21%	45%	668%	1718%
OGLE		697	9%	-93%	-33%	-8%	1%	12%	86%	756%
OGLE		1,095	81%	-66%	21%	44%	58%	83%	254%	858%
OGLE		1,364	-7%	-77%	-51%	-31%	-19%	-4%	59%	727%
OGLE		1,630	33%	-90%	-17%	17%	25%	39%	70%	2699%
OGLE		38	28%	-36%	1%	16%	25%	35%	61%	167%
OGLE		<b>25</b>	92%	-16%	-9%	4%	45%	86%	406%	634%
OOGLE		34	312%	-46%	-44%	3%	43%	560%	1254%	1340%
OGLE		57	-33%	-96%	-95%	-92%	-42%	0%	158%	176%
OGLE		85	255%	1%	37%	96%	183%	366%	714%	966%
OGLE		118	3%	-85%	-80%	-65%	-33%	20%	212%	1437%
OGLE		151	37%	-96%	-68%	-22%	19%	55%	235%	437%
GOOGLE		28	-5%	-51%	-48%	-20%	-7%	-1%	61%	61%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
08 GOOGLE		35	44%	-37%	-11%	33%	46%	54%	105%	109%
09 GOOGLE		37	-18%	-42%	-40%	-27%	-21%	-8%	13%	24%
10 GOOGLE		41	25%	-20%	-4%	15%	20%	28%	84%	124%
08 GOOGLE		39	52%	4%	16%	30%	47%	60%	95%	202%
09 GOOGLE		41	-1%	-52%	-51%	-21%	-11%	-3%	32%	420%
10 GOOGLE		38	28%	-88%	-55%	16%	23%	35%	90%	355%
08 GOOGLE		25	61%	-19%	-1%	41%	54%	71%	143%	143%
09 GOOGLE		33	-19%	-54%	-53%	-36%	-21%	-14%	17%	167%
10 GOOGLE		34	23%	-68%	-13%	18%	26%	31%	42%	50%
03 GOOGLE		34	-25%	-81%	-77%	-68%	-48%	35%	91%	96%
04 GOOGLE		47	42%	-82%	-21%	-4%	5%	22%	233%	788%
05 GOOGLE		92	29%	-82%	-56%	-20%	5%	45%	232%	366%
06 GOOGLE		135	234%	-46%	-28%	4%	34%	343%	1161%	1814%
07 GOOGLE		259	2%	-95%	-91%	-16%	-2%	13%	110%	564%
08 GOOGLE		354	134%	-73%	23%	59%	85%	176%	411%	825%
09 GOOGLE		510	-14%	-85%	-70%	-53%	-30%	-11%	126%	746%
10 GOOGLE		658	39%	-92%	-54%	15%	28%	41%	148%	1519%
07 GOOGLE		27	2%	-40%	-40%	-32%	-6%	25%	65%	65%
04 GOOGLE		28	13%	-44%	-39%	-24%	-3%	29%	100%	222%
05 GOOGLE		43	5%	-49%	-47%	-36%	4%	32%	61%	97%
06 GOOGLE		63	21%	-30%	-17%	-2%	16%	35%	96%	108%
07 GOOGLE		40	10%	-39%	-31%	-3%	8%	21%	47%	155%
08 GOOGLE		44	34%	-25%	-13%	8%	36%	62%	74%	84%
04 GOOGLE		25	-8%	-73%	-71%	-55%	-29%	41%	84%	106%
05 GOOGLE		60	-18%	-59%	-58%	-48%	-31%	0%	48%	115%
06 GOOGLE		97	22%	-41%	-31%	-5%	16%	36%	97%	228%
07 GOOGLE		73	0%	-47%	-43%	-19%	0%	13%	47%	178%
08 GOOGLE		75	31%	-32%	-10%	15%	32%	43%	76%	101%
05 GOOGLE		29	-12%	-58%	-56%	-48%	-10%	17%	44%	50%
06 GOOGLE		50	5%	-51%	-44%	-22%	2%	22%	83%	101%
07 GOOGLE		52	4%	-50%	-37%	-7%	0%	14%	49%	96%
08 GOOGLE		55	46%	-18%	5%	30%	41%	60%	94%	173%

					5th	25th		75th	95th	
Year Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2008 GOOGLE		34	34%	-27%	-14%	17%	35%	49%	79%	89%
2009 GOOGLE		40	1%	-30%	-30%	-13%	-10%	7%	68%	90%
2010 GOOGLE		29	42%	9%	12%	23%	34%	60%	94%	103%
2006 GOOGLE		48	14%	-61%	-33%	-19%	1%	30%	65%	316%
2007 GOOGLE		63	-3%	-54%	-50%	-35%	-11%	17%	69%	155%
2008 GOOGLE		81	50%	-49%	-8%	25%	44%	58%	133%	236%
2009 GOOGLE		72	2%	-43%	-32%	-18%	-9%	10%	65%	251%
2010 GOOGLE		57	26%	-28%	-21%	11%	28%	44%	72%	92%
2005 GOOGLE		29	-12%	-78%	-71%	-56%	-26%	20%	107%	142%
2006 GOOGLE		42	-2%	-50%	-49%	-32%	-17%	28%	78%	128%
2007 GOOGLE		<b>75</b>	-8%	-59%	-50%	-35%	-12%	9%	70%	90%
2008 GOOGLE		84	50%	-42%	-23%	29%	46%	58%	134%	361%
2009 GOOGLE		103	-11%	-57%	-41%	-28%	-15%	3%	47%	90%
2010 GOOGLE		104	23%	-61%	-37%	13%	25%	36%	71%	152%
2007 GOOGLE		29	-7%	-69%	-68%	-17%	-4%	5%	52%	58%
2008 GOOGLE		33	72%	-55%	-30%	38%	57%	85%	181%	539%
2009 GOOGLE		39	-7%	-60%	-55%	-42%	-19%	-3%	123%	195%
2010 GOOGLE		38	31%	-66%	-56%	15%	29%	46%	96%	107%
2006 GOOGLE		27	1%	-93%	-49%	-21%	0%	25%	56%	110%
2008 GOOGLE		30	25%	-23%	-19%	20%	27%	39%	43%	60%
2009 GOOGLE		26	-1%	-27%	-22%	-19%	-3%	13%	26%	49%
2006 GOOGLE		37	23%	-30%	-22%	-1%	8%	42%	106%	116%
2006 GOOGLE		62	19%	-40%	-26%	-6%	20%	37%	79%	99%
2007 GOOGLE		64	-1%	-35%	-27%	-10%	-1%	8%	26%	51%
2008 GOOGLE		80	21%	-35%	-16%	7%	22%	37%	48%	84%
2009 GOOGLE		67	2%	-33%	-28%	-10%	-2%	13%	32%	70%
2010 GOOGLE		66	21%	-31%	-21%	3%	24%	33%	71%	96%
2006 GOOGLE		34	27%	-43%	-39%	-11%	11%	39%	131%	451%
2007 GOOGLE		51	-5%	-56%	-43%	-11%	-6%	0%	30%	69%
2008 GOOGLE		72	35%	-8%	0%	23%	33%	47%	68%	101%
2009 GOOGLE		65	-11%	-47%	-38%	-19%	-12%	-2%	18%	51%
2010 GOOGLE		85	22%	-35%	-19%	14%	23%	33%	54%	82%
2006 GOOGLE		25	19%	-34%	-32%	-13%	12%	44%	94%	151%

					5th	25th		75th	95th	
Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
GOOGLE		36	12%	-60%	-50%	-25%	2%	42%	83%	118%
GOOGLE		32	33%	-10%	-10%	18%	36%	45%	64%	88%
GOOGLE		35	10%	-34%	-29%	-14%	-2%	13%	152%	226%
GOOGLE		43	31%	-66%	-41%	4%	25%	38%	57%	503%
GOOGLE		26	43%	-67%	-23%	14%	30%	47%	169%	347%
INTEL		66	-1%	-25%	-14%	-12%	-6%	6%	23%	57%
! INTEL		78	-2%	-23%	-22%	-7%	-2%	5%	13%	33%
INTEL		58	12%	-3%	-2%	7%	10%	17%	27%	42%
INTEL		46	6%	-9%	-5%	2%	7%	9%	14%	24%
INTEL		61	17%	-11%	3%	10%	15%	23%	34%	35%
INTEL		<b>7</b> 6	16%	-7%	1%	10%	15%	22%	33%	37%
NTEL		68	13%	0%	3%	7%	11%	19%	26%	29%
NTEL		82	1%	-11%	-7%	-2%	1%	4%	12%	21%
TEL		95	15%	1%	4%	10%	15%	19%	26%	31%
EL		82	23%	-2%	9%	16%	22%	29%	47%	49%
_		68	-3%	-27%	-15%	-12%	-3%	5%	15%	42%
		58	-7%	-34%	-23%	-13%	-7%	-2%	10%	10%
		68	10%	-18%	-3%	7%	9%	14%	23%	26%
		<b>7</b> 9	1%	-18%	-11%	-3%	0%	4%	10%	23%
L		110	13%	-9%	0%	8%	11%	19%	31%	42%
L		93	11%	-11%	0%	6%	10%	16%	23%	24%
ΞL		105	9%	-9%	-1%	6%	8%	14%	23%	28%
L		106	3%	-7%	-5%	-1%	3%	6%	9%	23%
ĬL		104	7%	-6%	-1%	4%	7%	11%	15%	18%
EL		97	16%	-5%	3%	11%	15%	22%	32%	46%
EL		74	-7%	-48%	-38%	-13%	-8%	-2%	22%	55%
EL		96	-7%	-38%	-30%	-13%	-6%	-1%	6%	38%
EL		102	15%	-19%	-6%	7%	11%	21%	76%	90%
EL		97	-1%	-31%	-17%	-7%	-1%	4%	12%	46%
EL		139	15%	-4%	5%	8%	14%	20%	29%	74%
TEL		147	10%	-12%	-7%	5%	10%	16%	22%	32%
ITEL		145	14%	-2%	5%	10%	13%	17%	25%	59%
NTEL		161	5%	-13%	-6%	1%	4%	8%	16%	34%

					5th	25th		75th	95th	
r Employer_	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
9 INTEL		163	8%	-9%	0%	4%	7%	11%	20%	31%
.O INTEL		169	17%	-3%	4%	12%	18%	22%	32%	52%
1 INTEL		82	-4%	-53%	-41%	-15%	-10%	2%	49%	86%
2 INTEL		93	-14%	-50%	-43%	-19%	-13%	-7%	3%	48%
3 INTEL		87	20%	-21%	1%	10%	17%	22%	36%	139%
4 INTEL		90	-5%	-33%	-22%	-7%	-5%	0%	6%	17%
5 INTEL		113	17%	-5%	4%	12%	17%	21%	30%	71%
6 INTEL		121	6%	-23%	-9%	3%	6%	11%	16%	27%
7 INTEL		129	14%	-4%	4%	10%	13%	18%	27%	49%
8 INTEL		163	5%	-22%	-12%	0%	5%	9%	17%	40%
9 INTEL		163	7%	-13%	-1%	2%	7%	11%	21%	24%
.O INTEL		170	14%	-13%	3%	9%	13%	18%	26%	52%
1 INTEL		49	-2%	-39%	-27%	-15%	-8%	4%	49%	61%
2 INTEL		50	-11%	-49%	-43%	-20%	-11%	-5%	22%	59%
INTEL		57	25%	-18%	-13%	11%	19%	26%	123%	137%
INTEL		64	-6%	-26%	-18%	-11%	-6%	-2%	7%	9%
INTEL		66	17%	-8%	4%	11%	13%	20%	46%	82%
INTEL		82	3%	-41%	-14%	-2%	3%	8%	15%	54%
INTEL		93	19%	-11%	9%	14%	16%	23%	48%	65%
INTEL		102	8%	-22%	-4%	2%	7%	13%	25%	46%
9 INTEL		99	3%	-15%	-8%	-3%	2%	9%	18%	27%
) INTEL		112	16%	-1%	8%	12%	15%	20%	28%	54%
INTEL		69	-1%	-13%	-11%	-7%	-1%	3%	11%	19%
INTEL		40	12%	-13%	0%	9%	13%	17%	23%	30%
INTEL		29	2%	-13%	-6%	-1%	3%	5%	9%	13%
5 INTEL		34	10%	-4%	-3%	2%	9%	16%	23%	24%
6 INTEL		30	8%	-4%	-4%	0%	6%	13%	23%	25%
2 INTEL		170	-4%	-21%	-15%	-9%	-5%	0%	13%	22%
3 INTEL		149	12%	-3%	-1%	8%	11%	16%	23%	41%
INTEL		123	0%	-10%	-8%	-4%	-1%	3%	9%	26%
INTEL		130	10%	-5%	-3%	3%	9%	16%	25%	38%
6 INTEL		100	10%	-7%	-3%	1%	8%	16%	24%	49%
7 INTEL		71	12%	1%	3%	7%	10%	19%	24%	33%

					5th	25th		75th	95th	
r Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
8 INTEL		60	2%	-8%	-5%	-1%	2%	4%	9%	22%
9 INTEL		62	12%	-1%	1%	7%	10%	18%	24%	30%
O INTEL		48	8%	-3%	-1%	4%	6%	10%	21%	23%
2 INTEL		242	-7%	-31%	-21%	-13%	-6%	-2%	6%	34%
3 INTEL		210	11%	-7%	-4%	5%	9%	17%	27%	42%
4 INTEL		207	-4%	-27%	-13%	-7%	-5%	-1%	7%	32%
INTEL		221	7%	-11%	-3%	3%	5%	11%	17%	25%
INTEL		229	5%	-19%	-6%	1%	4%	9%	20%	35%
INTEL		185	9%	-10%	2%	6%	8%	13%	19%	27%
INTEL		161	4%	-11%	-5%	0%	4%	8%	15%	29%
INTEL		158	6%	-7%	-4%	1%	6%	11%	18%	24%
INTEL		144	7%	-7%	-2%	4%	5%	10%	20%	30%
INTEL		159	-8%	-38%	-26%	-16%	-7%	-3%	8%	52%
INTEL		180	11%	-23%	-5%	6%	11%	17%	26%	98%
NTEL		183	-3%	-17%	-12%	-7%	-4%	0%	7%	19%
NTEL		177	7%	-9%	-3%	3%	5%	10%	16%	54%
NTEL		194	4%	-11%	-6%	-1%	2%	8%	20%	42%
NTEL		176	11%	-19%	4%	8%	11%	15%	21%	28%
NTEL		172	5%	-7%	-4%	1%	5%	9%	14%	20%
NTEL		166	5%	-5%	-3%	1%	5%	9%	15%	25%
INTEL		170	7%	-6%	0%	4%	5%	9%	16%	31%
INTEL		43	-8%	-43%	-36%	-14%	-7%	-3%	4%	29%
INTEL		41	11%	-10%	-7%	7%	12%	17%	28%	30%
INTEL		41	-6%	-46%	-16%	-10%	-5%	-3%	9%	11%
INTEL		33	8%	-1%	0%	5%	7%	11%	19%	29%
INTEL		49	0%	-25%	-22%	-4%	0%	6%	16%	31%
INTEL		51	12%	4%	6%	9%	13%	15%	19%	21%
INTEL		71	7%	-12%	-3%	2%	6%	13%	19%	29%
INTEL		64	4%	-11%	-6%	0%	4%	8%	16%	24%
INTEL		66	5%	-3%	1%	3%	5%	7%	13%	20%
INTEL		75	-2%	-19%	-16%	-6%	-2%	3%	12%	17%
INTEL		103	9%	-6%	-1%	3%	8%	15%	19%	24%
INTEL		76	9%	-6%	-4%	2%	8%	16%	21%	26%

					5th	25th		75th	95th	
Year Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2007 INTEL		34	14%	1%	2%	7%	16%	20%	25%	29%
2004 INTEL		60	0%	-10%	-8%	-3%	-1%	2%	13%	21%
2005 INTEL		118	8%	-6%	-2%	3%	7%	14%	22%	31%
2006 INTEL		132	7%	-8%	-3%	1%	5%	12%	21%	28%
2007 INTEL		91	10%	-2%	2%	6%	8%	12%	22%	27%
2008 INTEL		74	0%	-9%	-5%	-2%	0%	3%	6%	9%
2009 INTEL		60	10%	2%	2%	7%	9%	12%	25%	28%
2010 INTEL		56	9%	-2%	-1%	3%	4%	15%	24%	30%
2004 INTEL		65	-4%	-13%	-11%	-6%	-4%	0%	6%	9%
2005 INTEL		127	9%	-7%	0%	3%	7%	11%	28%	34%
2006 INTEL		124	4%	-18%	-7%	1%	3%	6%	15%	21%
2007 INTEL		103	9%	-4%	2%	6%	7%	12%	19%	27%
2008 INTEL		95	3%	-11%	-5%	0%	4%	6%	9%	15%
2009 INTEL		77	6%	-12%	-6%	2%	6%	10%	16%	23%
2010 INTEL		62	5%	-5%	-3%	3%	4%	9%	16%	17%
2004 INTEL		33	-2%	-14%	-13%	-8%	-3%	3%	12%	13%
2005 INTEL		45	9%	-4%	-1%	4%	8%	12%	23%	31%
2006 INTEL		57	3%	-27%	-6%	-1%	3%	6%	16%	22%
2007 INTEL		60	10%	-14%	0%	6%	10%	13%	18%	21%
2008 INTEL		64	4%	-47%	-6%	2%	5%	8%	12%	15%
2009 INTEL		59	7%	-5%	-3%	2%	6%	10%	16%	94%
2010 INTEL		63	6%	-4%	0%	4%	5%	7%	13%	17%
2005 INTEL		33	10%	-4%	-2%	5%	8%	16%	28%	28%
2006 INTEL		34	4%	-11%	-9%	-1%	2%	9%	22%	25%
2007 INTEL		25	9%	-2%	-2%	5%	9%	14%	22%	26%
2009 INTEL		26	8%	-2%	-1%	5%	7%	11%	18%	22%
2010 INTEL		25	4%	-4%	-2%	3%	4%	6%	10%	14%
2005 INTEL		56	10%	-6%	-2%	5%	7%	13%	31%	39%
2006 INTEL		59	4%	-9%	-5%	-1%	2%	9%	17%	27%
2007 INTEL		60	12%	0%	5%	8%	11%	17%	23%	23%
2008 INTEL		55	4%	-22%	-5%	1%	4%	7%	12%	14%
2009 INTEL		57	9%	-1%	-1%	4%	9%	13%	20%	27%
2010 INTEL		52	7%	-3%	-2%	4%	5%	10%	16%	17%

					5th	25th		75th	95th	
ear Employer_	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2007 INTEL		28	12%	-5%	-1%	9%	13%	16%	20%	26%
2008 INTEL		36	5%	-14%	-7%	1%	4%	10%	16%	17%
2009 INTEL		37	6%	-9%	-7%	3%	5%	10%	15%	22%
2010 INTEL		51	7%	-4%	-2%	4%	7%	10%	21%	24%
2001 INTEL		34	2%	-14%	-11%	-9%	2%	10%	27%	44%
2001 INTEL		125	0%	-19%	-14%	-9%	-3%	7%	26%	45%
2002 INTEL		117	-4%	-23%	-19%	-9%	-4%	2%	14%	22%
2003 INTEL		93	15%	-6%	-2%	8%	13%	20%	29%	57%
2004 INTEL		75	1%	-18%	-11%	-5%	-1%	4%	22%	29%
2005 INTEL		77	11%	-5%	-1%	5%	10%	16%	24%	27%
2006 INTEL		41	9%	-7%	-6%	3%	7%	16%	32%	35%
2010 INTEL		26	13%	0%	3%	6%	10%	21%	28%	30%
2001 INTEL		126	-5%	-26%	-20%	-13%	-9%	1%	18%	37%
2002 INTEL		141	-7%	-35%	-22%	-13%	-7%	-1%	6%	18%
2003 INTEL		141	10%	-10%	-4%	5%	10%	16%	23%	32%
2004 INTEL		147	-2%	-18%	-12%	-5%	-3%	2%	8%	20%
2005 INTEL		106	8%	-10%	-1%	3%	7%	11%	21%	35%
2006 INTEL		57	7%	-9%	-3%	3%	6%	11%	19%	25%
2007 INTEL		42	12%	-3%	4%	7%	11%	16%	25%	34%
2008 INTEL		30	3%	-11%	-2%	0%	2%	6%	12%	12%
2009 INTEL		31	7%	-4%	-1%	2%	7%	8%	21%	24%
2010 INTEL		32	9%	0%	1%	4%	6%	11%	21%	50%
2001 INTEL		204	-6%	-44%	-25%	-13%	-9%	0%	22%	59%
2002 INTEL		209	-10%	-40%	-37%	-17%	-10%	-4%	8%	64%
2003 INTEL		215	12%	-20%	-13%	7%	11%	18%	30%	98%
2004 INTEL		227	-3%	-31%	-15%	-8%	-4%	1%	8%	46%
2005 INTEL		180	11%	-10%	-1%	5%	10%	16%	27%	43%
2006 INTEL		78	6%	-7%	-4%	-1%	4%	11%	22%	30%
2007 INTEL		51	14%	5%	6%	10%	13%	17%	26%	28%
2008 INTEL		52	4%	-10%	-5%	-1%	3%	7%	14%	15%
2009 INTEL		50	8%	-3%	-1%	3%	8%	11%	18%	24%
2010 INTEL		43	8%	-6%	-2%	2%	6%	14%	21%	31%
2001 INTEL		170	-6%	-46%	-28%	-15%	-11%	0%	40%	59%

				5th	25th		75th	95th	
Employer Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
INTEL	200	-11%	-64%	-38%	-18%	-11%	-3%	9%	47%
INTEL	189	13%	-19%	-6%	8%	12%	17%	26%	100%
INTEL	182	-4%	-23%	-14%	-8%	-5%	-1%	10%	52%
INTEL	93	10%	-11%	-1%	6%	10%	14%	19%	49%
INTEL	46	2%	-12%	-7%	-3%	0%	6%	14%	25%
INTEL	31	13%	-1%	6%	10%	14%	16%	22%	32%
INTEL	34	6%	-9%	-6%	2%	6%	10%	15%	21%
INTEL	36	6%	-7%	-1%	2%	6%	8%	16%	30%
NTEL	35	6%	0%	0%	2%	5%	7%	15%	21%
NTEL	83	-9%	-47%	-40%	-14%	-10%	-2%	8%	40%
NTEL	101	-12%	-55%	-43%	-20%	-12%	-6%	19%	38%
NTEL	112	14%	-30%	-21%	10%	16%	24%	30%	79%
NTEL	117	-6%	-40%	-17%	-9%	-5%	-1%	6%	14%
NTEL	44	16%	1%	2%	8%	13%	21%	54%	64%
NTEL	46	-9%	-56%	-33%	-15%	-12%	-5%	18%	85%
TEL	29	-9%	-58%	-52%	-21%	-15%	-7%	81%	82%
EL	143	1%	-22%	-11%	-7%	1%	7%	16%	29%
EL	128	-3%	-21%	-18%	-8%	-4%	4%	11%	68%
EL	95	13%	-15%	-6%	8%	15%	19%	26%	45%
EL	80	2%	-12%	-9%	-2%	1%	7%	17%	21%
TEL	156	17%	-9%	4%	11%	15%	24%	30%	42%
TEL	174	16%	-6%	1%	12%	16%	22%	29%	34%
TEL	123	18%	1%	6%	12%	18%	23%	31%	41%
TEL	103	4%	-7%	-3%	0%	4%	6%	16%	19%
ITEL	125	19%	4%	8%	14%	20%	23%	27%	35%
NTEL	84	18%	-1%	2%	12%	19%	24%	30%	42%
NTEL	702	1%	-32%	-14%	-10%	-4%	10%	25%	73%
NTEL	683	-3%	-27%	-17%	-9%	-4%	2%	12%	35%
ITEL	622	13%	-13%	-2%	7%	12%	18%	26%	42%
NTEL	559	1%	-16%	-10%	-4%	-1%	5%	12%	31%
NTEL	681	14%	-7%	1%	9%	13%	21%	30%	43%
NTEL	728	11%	-9%	-2%	5%	10%	16%	26%	39%
INTEL	739	13%	-11%	3%	7%	11%	19%	27%	43%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
008 INTEL		722	2%	-11%	-5%	-2%	1%	5%	17%	27%
009 INTEL		818	16%	-13%	5%	11%	16%	21%	27%	50%
010 INTEL		801	15%	-2%	2%	7%	15%	22%	34%	46%
001 INTEL		666	-5%	-38%	-19%	-12%	-8%	1%	15%	67%
002 INTEL		738	-7%	-49%	-22%	-13%	-7%	-1%	8%	46%
003 INTEL		815	11%	-21%	-5%	6%	10%	16%	25%	87%
004 INTEL		839	-3%	-19%	-11%	-7%	-4%	0%	7%	40%
005 INTEL		958	11%	-10%	-2%	6%	10%	15%	23%	38%
006 INTEL		898	8%	-19%	-3%	3%	7%	12%	20%	43%
007 INTEL		839	11%	-7%	1%	6%	10%	14%	21%	44%
008 INTEL		859	3%	-13%	-5%	0%	3%	6%	12%	30%
009 INTEL		884	8%	-7%	-1%	4%	8%	11%	18%	41%
010 INTEL		956	8%	-8%	0%	4%	7%	11%	17%	48%
001 INTEL		760	-5%	-56%	-24%	-13%	-8%	1%	24%	75%
002 INTEL		832	-8%	-49%	-35%	-14%	-7%	-2%	10%	45%
003 INTEL		913	12%	-24%	-12%	7%	11%	18%	28%	105%
004 INTEL		945	-3%	-35%	-13%	-7%	-3%	1%	9%	47%
005 INTEL		1,113	12%	-10%	-1%	7%	11%	17%	28%	75%
006 INTEL		1,157	6%	-25%	-5%	1%	5%	10%	20%	69%
007 INTEL		1,233	13%	-18%	4%	9%	12%	16%	25%	65%
008 INTEL		1,226	4%	-15%	-5%	0%	4%	8%	14%	27%
009 INTEL		1,254	8%	-15%	-1%	4%	8%	11%	19%	39%
010 INTEL		1,298	8%	-13%	1%	4%	7%	11%	19%	42%
001 INTEL		612	-6%	-53%	-28%	-15%	-10%	0%	32%	76%
002 INTEL		669	-11%	-58%	-41%	-19%	-10%	-4%	10%	69%
003 INTEL		730	13%	-35%	-11%	8%	13%	20%	31%	125%
004 INTEL		776	-4%	-41%	-15%	-8%	-5%	0%	9%	55%
005 INTEL		851	12%	-21%	0%	7%	11%	16%	26%	83%
006 INTEL		889	4%	-49%	-8%	-1%	2%	8%	18%	80%
007 INTEL		925	14%	-20%	3%	10%	13%	17%	27%	87%
008 INTEL		965	5%	-24%	-7%	1%	5%	10%	17%	41%
009 INTEL		967	6%	-20%	-3%	1%	6%	10%	19%	44%
010 INTEL		1,067	8%	-98%	0%	4%	7%	11%	18%	49%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
001 INTEL		355	-5%	-48%	-33%	-15%	-9%	0%	42%	119%
002 INTEL		387	-11%	-50%	-42%	-20%	-12%	-5%	30%	95%
003 INTEL		445	15%	-35%	-20%	9%	15%	22%	34%	158%
004 INTEL		459	-4%	-45%	-16%	-8%	-4%	1%	8%	71%
005 INTEL		464	15%	-32%	2%	8%	13%	18%	41%	101%
006 INTEL		524	2%	-32%	-14%	-4%	0%	5%	27%	94%
007 INTEL		566	16%	-29%	-3%	11%	15%	20%	33%	87%
008 INTEL		612	9%	-25%	-6%	4%	8%	14%	22%	61%
009 INTEL		616	3%	-24%	-9%	-2%	2%	8%	17%	51%
10 INTEL		641	11%	-10%	2%	8%	11%	14%	23%	52%
005 INTEL		31	15%	-5%	-2%	5%	12%	26%	37%	48%
005 INTEL		48	14%	-3%	2%	8%	12%	19%	37%	47%
006 INTEL		52	3%	-12%	-10%	-2%	2%	9%	17%	20%
07 INTEL		45	9%	-4%	-4%	6%	9%	14%	17%	18%
08 INTEL		51	4%	-4%	-4%	-1%	4%	8%	14%	16%
09 INTEL		38	7%	-9%	-3%	2%	7%	11%	23%	26%
10 INTEL		36	11%	-3%	-1%	3%	10%	17%	32%	35%
04 INTEL		35	0%	-10%	-10%	-5%	-2%	4%	19%	24%
05 INTEL		96	13%	-7%	5%	9%	13%	16%	22%	61%
06 INTEL		98	4%	-12%	-4%	0%	4%	8%	15%	32%
07 INTEL		85	12%	-2%	1%	7%	10%	15%	24%	53%
08 INTEL		81	4%	-8%	-4%	0%	4%	8%	11%	17%
09 INTEL		68	5%	-5%	-4%	2%	4%	9%	15%	17%
10 INTEL		75	8%	-1%	1%	4%	6%	10%	22%	30%
05 INTEL		39	15%	5%	6%	8%	11%	16%	44%	67%
06 INTEL		39	1%	-23%	-19%	-3%	0%	5%	45%	52%
07 INTEL		46	14%	-17%	3%	10%	15%	18%	23%	50%
08 INTEL		55	6%	-15%	-3%	2%	6%	10%	13%	17%
09 INTEL		51	3%	-14%	-3%	-1%	3%	6%	11%	11%
10 INTEL		56	10%	1%	2%	4%	6%	13%	29%	40%
008 INTEL		28	9%	-5%	-4%	7%	9%	13%	18%	21%
10 INTEL		26	13%	5%	5%	9%	11%	15%	24%	36%
001 INTEL		35	-3%	-24%	-21%	-12%	-9%	5%	27%	41%

					5th	25th		75th	95th	
ear Employer_	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
002 INTEL		30	-4%	-26%	-16%	-13%	-4%	4%	11%	13%
001 INTEL		33	-12%	-26%	-26%	-16%	-12%	-10%	0%	1%
002 INTEL		34	-7%	-24%	-20%	-13%	-7%	0%	3%	5%
003 INTEL		30	8%	-21%	-19%	6%	9%	17%	21%	27%
004 INTEL		27	2%	-10%	-8%	-1%	0%	7%	14%	16%
005 INTEL		34	10%	-12%	-5%	2%	9%	17%	28%	46%
006 INTEL		34	3%	-12%	-8%	-4%	-2%	8%	44%	59%
007 INTEL		34	4%	-54%	-54%	-2%	8%	12%	25%	25%
005 INTEL		32	10%	-8%	0%	6%	10%	14%	20%	36%
006 INTEL		<b>2</b> 9	2%	-8%	-5%	-2%	2%	6%	13%	18%
004 INTEL		27	-1%	-10%	-9%	-6%	-1%	0%	12%	35%
05 INTEL		38	10%	-1%	0%	6%	10%	12%	19%	39%
06 INTEL		45	2%	-9%	-6%	-2%	2%	4%	10%	16%
7 INTEL		44	11%	4%	5%	7%	10%	14%	20%	20%
8 INTEL		40	5%	-10%	-5%	1%	5%	9%	16%	26%
9 INTEL		32	6%	-1%	-1%	0%	6%	10%	17%	17%
LO INTEL		38	7%	-3%	-2%	4%	7%	10%	19%	19%
2 INTEL		25	-4%	-19%	-19%	-8%	-5%	1%	6%	9%
O3 INTEL		33	13%	-6%	-3%	8%	11%	19%	27%	30%
4 INTEL		31	-4%	-14%	-13%	-8%	-5%	-1%	14%	20%
1 INTEL		32	-5%	-24%	-23%	-12%	-9%	0%	12%	61%
2 INTEL		27	-11%	-42%	-42%	-16%	-10%	-4%	5%	6%
3 INTEL		31	12%	-4%	0%	7%	10%	15%	27%	40%
04 INTEL		27	-4%	-15%	-13%	-8%	-3%	0%	4%	7%
8 INTEL		25	5%	-9%	-4%	2%	5%	8%	13%	14%
9 INTEL		<b>25</b>	5%	-4%	-3%	2%	3%	9%	14%	16%
2 INTEL		25	-7%	-34%	-27%	-15%	-6%	-2%	10%	21%
02 INTEL		36	-17%	-39%	-38%	-32%	-15%	-6%	5%	41%
03 INTEL		36	11%	-19%	-17%	-4%	10%	22%	35%	89%
04 INTEL		32	-2%	-31%	-14%	-8%	-4%	2%	11%	38%
D3 INTEL		25	15%	-18%	-17%	-8%	10%	20%	100%	109%
04 INTEL		29	1%	-31%	-30%	-8%	-4%	10%	25%	54%
001 INTEL		341	-5%	-62%	-46%	-17%	-11%	1%	67%	150%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
002 INTEL		341	-11%	-65%	-52%	-23%	-13%	-6%	52%	100%
003 INTEL		387	30%	-41%	-31%	13%	19%	30%	145%	345%
004 INTEL		392	-10%	-60%	-50%	-13%	-5%	-1%	8%	86%
005 INTEL		368	21%	-8%	3%	10%	13%	22%	71%	86%
006 INTEL		374	2%	-38%	-28%	-9%	-3%	5%	59%	105%
07 INTEL		380	19%	-29%	-22%	12%	18%	24%	73%	97%
08 INTEL		369	11%	-31%	-17%	3%	11%	18%	32%	74%
09 INTEL		344	0%	-30%	-15%	-6%	-1%	4%	15%	89%
10 INTEL		358	14%	-5%	4%	11%	13%	17%	26%	77%
01 INTEL		119	-5%	-61%	-44%	-22%	-14%	2%	76%	118%
2 INTEL		129	-10%	-67%	-58%	-26%	-14%	-5%	58%	113%
3 INTEL		130	36%	-50%	-39%	13%	22%	35%	158%	259%
04 INTEL		133	-9%	-53%	-51%	-13%	-4%	1%	13%	116%
5 INTEL		143	31%	-4%	4%	13%	19%	31%	86%	260%
INTEL		133	3%	-32%	-28%	-9%	-1%	11%	52%	78%
INTEL		144	25%	-27%	-17%	16%	23%	35%	84%	109%
INTEL		145	14%	-31%	-21%	3%	15%	27%	47%	64%
NTEL		147	-4%	-34%	-23%	-13%	-7%	3%	25%	67%
INTEL		143	13%	-11%	0%	9%	11%	17%	27%	97%
NTEL		28	52%	-42%	-39%	20%	28%	109%	175%	183%
INTEL		25	-12%	-57%	-57%	-23%	-6%	2%	19%	19%
INTEL		26	53%	12%	15%	18%	24%	77%	113%	241%
INTEL		33	9%	-41%	-37%	-22%	-7%	5%	81%	239%
INTEL		31	28%	-21%	-18%	11%	33%	42%	91%	97%
INTEL		26	18%	-18%	-14%	11%	17%	30%	40%	62%
INTEL		25	-6%	-25%	-24%	-18%	-6%	0%	13%	15%
5 INTEL		32	14%	0%	2%	10%	14%	17%	21%	47%
5 INTEL		26	9%	-2%	-2%	3%	9%	14%	22%	27%
INTEL		36	10%	-2%	0%	7%	9%	17%	19%	20%
L INTEL		207	-3%	-49%	-41%	-13%	-9%	4%	44%	80%
INTEL		201	-6%	-41%	-35%	-14%	-4%	2%	15%	57%
3 INTEL		193	12%	-27%	-8%	8%	12%	18%	28%	44%
04 INTEL		193	-2%	-31%	-11%	-6%	-3%	2%	9%	13%

					5th	25th		75th	95th	
Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
INTEL		269	16%	-6%	5%	10%	15%	20%	31%	73%
INTEL		208	9%	-11%	-4%	2%	7%	12%	25%	64%
INTEL		181	16%	-13%	6%	10%	14%	20%	30%	70%
INTEL		139	3%	-18%	-6%	0%	3%	7%	13%	16%
INTEL		168	9%	-6%	0%	5%	9%	13%	19%	24%
INTEL		158	9%	-5%	1%	5%	8%	13%	20%	26%
INTEL		411	-6%	-52%	-23%	-15%	-11%	0%	23%	85%
INTEL		425	-9%	-52%	-39%	-15%	-7%	-2%	9%	61%
INTEL		468	14%	-32%	-5%	9%	14%	20%	32%	91%
INTEL		462	-4%	-43%	-13%	-7%	-4%	-1%	7%	51%
INTEL		545	15%	-13%	2%	8%	12%	18%	36%	79%
INTEL		450	3%	-27%	-11%	-1%	2%	8%	18%	87%
INTEL		394	15%	-21%	1%	11%	14%	19%	30%	65%
INTEL		399	5%	-21%	-7%	2%	6%	10%	16%	41%
INTEL		413	5%	-17%	-5%	1%	5%	10%	18%	33%
INTEL		451	8%	-10%	0%	4%	6%	12%	19%	54%
INTEL		521	-6%	-48%	-28%	-15%	-10%	0%	30%	99%
INTEL		527	-10%	-59%	-42%	-19%	-11%	-4%	26%	73%
INTEL		549	17%	-32%	-19%	10%	17%	23%	40%	1699
INTEL		553	-5%	-43%	-15%	-9%	-5%	-1%	8%	63%
INTEL		645	15%	-26%	1%	7%	11%	16%	52%	92%
INTEL		564	2%	-41%	-19%	-5%	-1%	5%	36%	1159
INTEL		534	17%	-25%	-9%	12%	15%	20%	40%	1049
INTEL		532	8%	-23%	-8%	2%	8%	14%	23%	46%
INTEL		526	3%	-16%	-9%	-2%	2%	7%	15%	46%
INTEL		559	11%	-73%	3%	8%	10%	14%	23%	57%
INTEL		82	24%	-2%	3%	9%	15%	25%	78%	1079
INTEL		93	4%	-32%	-28%	-7%	-1%	6%	60%	77%
INTEL		107	18%	-44%	-21%	11%	18%	26%	72%	88%
INTEL		90	9%	-29%	-21%	5%	12%	19%	28%	34%
INTEL		85	1%	-20%	-12%	-5%	-1%	6%	17%	26%
INTEL		95	13%	-5%	5%	9%	13%	17%	24%	37%
INTEL		27	38%	7%	8%	17%	26%	68%	85%	96%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
6 INTEL		31	7%	-35%	-35%	-9%	-1%	21%	65%	82%
7 INTEL		32	38%	-16%	-8%	17%	29%	36%	127%	141%
8 INTEL		27	11%	-23%	-23%	-7%	9%	21%	47%	64%
9 INTEL		26	4%	-23%	-20%	-12%	2%	17%	31%	54%
5 INTEL		49	17%	-9%	5%	12%	16%	22%	27%	59%
6 INTEL		37	8%	-2%	-2%	3%	7%	14%	18%	22%
7 INTEL		42	15%	4%	6%	11%	14%	18%	26%	27%
8 INTEL		40	5%	-5%	-2%	1%	6%	8%	12%	14%
9 INTEL		42	7%	-2%	-1%	2%	6%	10%	17%	22%
.O INTEL		40	10%	0%	1%	6%	10%	14%	22%	24%
5 INTEL		125	17%	-5%	3%	9%	14%	18%	55%	74%
6 INTEL		117	8%	-21%	-13%	-1%	4%	11%	51%	63%
7 INTEL		126	16%	-11%	2%	13%	16%	20%	28%	49%
8 INTEL		120	5%	-19%	-6%	2%	5%	10%	16%	31%
9 INTEL		123	6%	-8%	-3%	2%	6%	10%	17%	25%
0 INTEL		119	9%	-2%	1%	5%	8%	12%	21%	44%
1 INTEL		34	-6%	-41%	-38%	-9%	-5%	-1%	16%	16%
INTEL		149	14%	-12%	2%	8%	12%	16%	38%	82%
6 INTEL		151	5%	-27%	-17%	-2%	2%	9%	41%	68%
7 INTEL		163	18%	-25%	-13%	14%	19%	23%	59%	85%
8 INTEL		162	9%	-24%	-7%	5%	10%	14%	21%	30%
9 INTEL		155	2%	-15%	-8%	-2%	1%	6%	14%	34%
O INTEL		184	13%	-2%	5%	9%	11%	16%	28%	75%
1 INTEL		112	1%	-17%	-13%	-7%	0%	9%	24%	34%
1 INTEL		113	-9%	-24%	-22%	-14%	-11%	-4%	7%	9%
1 INTEL		88	-3%	-26%	-24%	-13%	-5%	4%	32%	52%
1 INTEL		33	-18%	-48%	-45%	-21%	-18%	-13%	-1%	9%
5 INTEL		31	16%	2%	6%	12%	15%	20%	37%	43%
6 INTEL		30	4%	-12%	-7%	-1%	3%	9%	18%	23%
5 INTEL		59	13%	-5%	1%	5%	9%	14%	37%	89%
6 INTEL		68	3%	-18%	-10%	-3%	1%	6%	29%	39%
7 INTEL		71	13%	-20%	-9%	7%	13%	18%	26%	39%
8 INTEL		53	7%	-6%	-4%	2%	6%	13%	20%	49%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
09 INTEL		52	5%	-8%	-5%	-1%	4%	9%	17%	22%
10 INTEL		47	5%	-4%	-3%	2%	4%	6%	14%	18%
05 INTEL		32	16%	-1%	3%	9%	11%	17%	54%	88%
06 INTEL		36	0%	-20%	-13%	-7%	-1%	3%	14%	68%
07 INTEL		37	18%	-1%	5%	11%	16%	22%	50%	61%
08 INTEL		49	9%	-17%	-3%	1%	9%	15%	22%	38%
09 INTEL		46	3%	-11%	-8%	-1%	3%	9%	15%	20%
10 INTEL		50	9%	-1%	2%	7%	9%	12%	17%	19%
06 INTEL		26	8%	-1%	-1%	1%	7%	14%	19%	22%
06 INTEL		29	4%	-5%	-5%	-1%	3%	8%	17%	33%
7 INTEL		29	12%	-1%	7%	10%	11%	14%	23%	28%
8 INTEL		30	5%	-8%	-6%	0%	6%	10%	23%	24%
9 INTEL		31	8%	-5%	0%	3%	7%	13%	18%	23%
0 INTEL		33	8%	0%	1%	4%	7%	10%	18%	28%
INTEL		35	28%	-16%	-6%	7%	30%	41%	66%	99%
INTEL		28	-1%	-25%	-22%	-12%	-5%	9%	23%	38%
INTEL		27	48%	19%	23%	28%	34%	42%	123%	123%
INTEL		25	18%	-1%	-1%	2%	6%	13%	89%	92%
INTEL		35	40%	7%	14%	23%	25%	30%	147%	148%
INTEL		28	4%	-22%	-20%	-16%	-9%	8%	91%	102%
1 INTEL		58	25%	-69%	-13%	18%	28%	34%	52%	85%
2 INTEL		46	-1%	-17%	-14%	-10%	-5%	-3%	33%	68%
INTEL		38	25%	-12%	-9%	23%	28%	29%	42%	42%
1 INTEL		47	5%	-2%	-1%	2%	4%	7%	12%	44%
INTEL		50	33%	2%	19%	21%	22%	25%	124%	136%
5 INTEL		46	-15%	-24%	-23%	-19%	-18%	-14%	-10%	62%
7 INTEL		64	52%	13%	29%	32%	36%	46%	130%	175%
3 INTEL		46	0%	-13%	-10%	-5%	-3%	2%	6%	82%
INTEL		47	28%	16%	17%	20%	22%	25%	86%	132%
O INTEL		46	11%	6%	7%	8%	8%	10%	13%	100%
1 INTEL		132	0%	-14%	-12%	-7%	-1%	5%	16%	27%
INTEL		80	0%	-14%	-14%	-7%	-1%	4%	13%	21%
3 INTEL		40	13%	-4%	-4%	7%	14%	19%	24%	31%

						5th	25th		75th	95th	
Year	Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2004	INTEL		56	2%	-9%	-8%	-2%	1%	6%	22%	26%
2005	INTEL		84	15%	-5%	0%	9%	14%	22%	30%	37%
2006	INTEL		59	9%	-5%	-3%	1%	10%	16%	21%	32%
2007	INTEL		28	15%	2%	3%	7%	16%	23%	27%	30%
2008	INTEL		26	1%	-5%	-5%	-2%	0%	3%	8%	10%
2001	INTEL		233	0%	-27%	-22%	-9%	-5%	8%	27%	69%
2002	INTEL		185	-1%	-25%	-16%	-7%	-1%	4%	16%	28%
2003	INTEL		161	10%	-12%	-2%	6%	9%	15%	24%	30%
2004	INTEL		156	1%	-13%	-9%	-3%	-1%	5%	22%	32%
2005	INTEL		149	10%	-4%	-1%	4%	8%	16%	25%	32%
2006	INTEL		141	7%	-10%	-3%	1%	4%	12%	22%	38%
2007	INTEL		105	14%	-13%	1%	8%	11%	21%	28%	35%
2008	INTEL		94	1%	-9%	-5%	-2%	0%	4%	11%	23%
2009	INTEL		89	12%	1%	4%	8%	11%	17%	23%	28%
2010	INTEL		80	12%	2%	2%	4%	8%	19%	29%	39%
2001	INTEL		256	-7%	-37%	-28%	-14%	-9%	1%	14%	50%
2002	INTEL		219	-8%	-41%	-27%	-15%	-7%	-1%	7%	32%
2003	INTEL		204	11%	-24%	-10%	6%	10%	17%	23%	91%
2004	INTEL		199	-2%	-29%	-12%	-5%	-2%	1%	11%	41%
2005	INTEL		184	10%	-9%	-1%	4%	9%	15%	26%	35%
2006	INTEL		174	5%	-8%	-3%	0%	3%	9%	17%	24%
2007	INTEL		131	11%	-3%	1%	7%	11%	15%	23%	41%
2008	INTEL		123	3%	-12%	-4%	0%	3%	6%	12%	23%
2009	INTEL		112	8%	-5%	-2%	4%	8%	13%	20%	25%
2010	INTEL		90	7%	-5%	-2%	3%	5%	12%	19%	29%
2001	INTEL		259	-7%	-47%	-36%	-18%	-12%	1%	31%	71%
2002	INTEL		229	-9%	-43%	-37%	-16%	-9%	-2%	13%	69%
2003	INTEL		181	13%	-26%	-9%	7%	11%	19%	31%	101%
2004	INTEL		189	-1%	-29%	-12%	-6%	-3%	2%	13%	49%
	INTEL		193	11%	-19%	0%	6%	9%	16%	26%	41%
	INTEL		194	5%	-11%	-6%	-1%	2%	10%	18%	57%
	INTEL		182	14%	-1%	5%	9%	12%	17%	27%	60%
	INTEL		162	4%	-15%	-6%	0%	3%	8%	13%	30%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
9 INTEL		157	9%	-5%	-1%	5%	8%	12%	21%	27%
10 INTEL		169	8%	-19%	1%	5%	7%	12%	18%	34%
01 INTEL		164	-7%	-52%	-29%	-18%	-12%	0%	41%	57%
D2 INTEL		174	-12%	-54%	-41%	-20%	-12%	-5%	9%	73%
O3 INTEL		142	15%	-28%	-8%	9%	13%	22%	34%	131%
4 INTEL		157	-3%	-37%	-17%	-9%	-5%	-1%	13%	62%
5 INTEL		134	14%	-6%	1%	9%	12%	17%	33%	42%
INTEL		134	2%	-17%	-10%	-3%	0%	6%	15%	37%
INTEL		129	11%	-18%	0%	9%	12%	15%	21%	46%
BINTEL		128	5%	-15%	-5%	0%	5%	9%	16%	33%
INTEL		136	6%	-40%	-4%	1%	6%	10%	17%	71%
INTEL		137	8%	-4%	0%	4%	6%	9%	20%	46%
INTEL		70	-14%	-47%	-40%	-20%	-14%	-9%	16%	40%
INTEL		66	-11%	-56%	-39%	-19%	-10%	-4%	11%	79%
NTEL		63	20%	-27%	-19%	9%	14%	23%	133%	174%
NTEL		73	-7%	-43%	-19%	-12%	-6%	-2%	6%	16%
NTEL		69	18%	-11%	-1%	9%	13%	23%	47%	61%
ITEL		68	0%	-29%	-17%	-5%	-3%	4%	32%	57%
ITEL		69	14%	-18%	-13%	9%	14%	18%	34%	49%
ITEL		63	9%	-16%	-6%	0%	10%	15%	26%	48%
INTEL		70	3%	-13%	-10%	-2%	2%	8%	17%	23%
INTEL		80	11%	0%	3%	8%	10%	13%	21%	26%
INTEL		95	-2%	-23%	-13%	-10%	-3%	5%	16%	22%
INTEL		71	-2%	-20%	-13%	-7%	-3%	4%	11%	21%
INTEL		50	13%	0%	5%	9%	13%	18%	23%	28%
INTEL		31	4%	-7%	-6%	-1%	4%	6%	16%	26%
INTEL		49	10%	-4%	-1%	3%	10%	15%	21%	25%
INTEL		51	11%	-2%	-2%	4%	11%	16%	24%	28%
INTEL		122	-2%	-18%	-15%	-11%	-4%	6%	16%	44%
INTEL		107	-3%	-23%	-17%	-9%	-3%	3%	15%	22%
INTEL		122	12%	-10%	0%	8%	10%	16%	24%	32%
INTEL		133	-1%	-13%	-9%	-5%	-2%	4%	9%	23%
INTEL		122	8%	-4%	-3%	3%	7%	11%	22%	29%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
006 INTEL		103	7%	-9%	-4%	1%	4%	13%	21%	25%
007 INTEL		70	13%	1%	6%	8%	11%	18%	26%	28%
008 INTEL		56	1%	-9%	-6%	-1%	1%	3%	8%	10%
009 INTEL		44	13%	1%	5%	7%	11%	18%	24%	33%
10 INTEL		43	12%	-6%	-2%	4%	10%	19%	28%	37%
001 INTEL		108	-6%	-26%	-22%	-15%	-10%	3%	11%	59%
002 INTEL		97	-5%	-31%	-19%	-11%	-6%	-2%	11%	35%
003 INTEL		101	12%	-15%	-4%	7%	11%	17%	26%	44%
004 INTEL		100	-5%	-26%	-15%	-7%	-5%	-1%	8%	11%
005 INTEL		95	8%	-7%	0%	3%	8%	12%	19%	34%
006 INTEL		93	4%	-15%	-6%	0%	4%	9%	16%	20%
007 INTEL		85	11%	-4%	2%	6%	9%	15%	24%	45%
008 INTEL		66	3%	-12%	-3%	0%	2%	6%	11%	13%
009 INTEL		54	6%	-7%	-2%	3%	5%	8%	14%	18%
10 INTEL		57	5%	-6%	-3%	2%	4%	8%	16%	21%
001 INTEL		35	-7%	-19%	-18%	-13%	-8%	-2%	6%	13%
002 INTEL		38	-6%	-38%	-37%	-14%	-6%	-2%	26%	37%
003 INTEL		57	12%	-16%	-2%	8%	13%	17%	25%	31%
004 INTEL		53	-3%	-14%	-13%	-7%	-4%	1%	13%	28%
005 INTEL		53	10%	-2%	0%	4%	8%	14%	27%	32%
006 INTEL		49	4%	-8%	-6%	-1%	2%	7%	16%	33%
007 INTEL		53	14%	-1%	5%	8%	13%	16%	26%	60%
008 INTEL		55	6%	-9%	-5%	2%	7%	10%	13%	32%
009 INTEL		50	5%	-7%	-4%	0%	5%	10%	15%	17%
10 INTEL		53	7%	-11%	1%	4%	6%	9%	14%	37%
001 INTEL		51	-5%	-54%	-22%	-16%	-11%	-4%	67%	69%
002 INTEL		65	-21%	-57%	-53%	-28%	-16%	-12%	-2%	48%
003 INTEL		65	34%	-27%	1%	13%	21%	31%	140%	162%
004 INTEL		62	-12%	-57%	-53%	-15%	-7%	-4%	4%	22%
005 INTEL		80	18%	-1%	4%	9%	12%	18%	62%	71%
006 INTEL		74	-1%	-33%	-30%	-13%	-5%	0%	60%	96%
007 INTEL		78	18%	-27%	-22%	11%	16%	24%	79%	92%
008 INTEL		62	11%	-26%	-24%	2%	12%	19%	32%	34%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
009 INTEL		60	0%	-17%	-14%	-10%	-3%	6%	17%	111%
10 INTEL		68	12%	-13%	2%	10%	12%	15%	23%	29%
005 INTEL		31	31%	5%	8%	11%	17%	57%	82%	88%
008 INTEL		26	21%	-23%	-17%	5%	21%	37%	54%	55%
009 INTEL		26	-11%	-32%	-27%	-21%	-10%	-4%	7%	14%
001 INTEL		148	-3%	-50%	-37%	-13%	-8%	1%	41%	77%
002 INTEL		137	-8%	-43%	-35%	-15%	-6%	1%	13%	38%
003 INTEL		104	13%	-29%	-3%	8%	11%	21%	29%	77%
004 INTEL		96	-3%	-36%	-11%	-6%	-3%	1%	10%	12%
005 INTEL		147	13%	-2%	4%	8%	13%	18%	26%	47%
006 INTEL		82	7%	-6%	-5%	0%	6%	12%	22%	59%
07 INTEL		52	14%	4%	5%	9%	15%	18%	23%	24%
08 INTEL		46	5%	-5%	-3%	0%	5%	8%	14%	17%
09 INTEL		48	8%	-3%	-1%	4%	7%	12%	19%	21%
10 INTEL		41	10%	0%	2%	4%	9%	16%	24%	31%
1 INTEL		203	-5%	-48%	-25%	-14%	-10%	4%	32%	53%
2 INTEL		226	-11%	-49%	-42%	-18%	-10%	-4%	10%	60%
3 INTEL		199	14%	-34%	-15%	8%	13%	20%	36%	102%
04 INTEL		176	-5%	-20%	-14%	-8%	-5%	-1%	7%	25%
)5 INTEL		250	13%	-6%	3%	7%	11%	16%	26%	74%
06 INTEL		171	4%	-17%	-7%	-2%	1%	6%	25%	62%
7 INTEL		146	13%	-10%	1%	9%	12%	15%	29%	71%
8 INTEL		123	5%	-23%	-8%	0%	5%	10%	16%	24%
09 INTEL		129	5%	-12%	-5%	0%	4%	10%	15%	28%
10 INTEL		136	7%	-9%	0%	3%	6%	9%	20%	34%
1 INTEL		123	-5%	-47%	-31%	-15%	-11%	0%	39%	105%
2 INTEL		140	-12%	-50%	-40%	-22%	-13%	-6%	26%	58%
3 INTEL		155	16%	-34%	-17%	11%	16%	22%	38%	142%
4 INTEL		138	-5%	-21%	-15%	-7%	-5%	-2%	6%	12%
05 INTEL		174	13%	-5%	1%	6%	10%	14%	58%	78%
06 INTEL		167	2%	-27%	-11%	-5%	-1%	4%	47%	80%
07 INTEL		161	16%	-24%	-11%	9%	14%	18%	53%	92%
08 INTEL		149	7%	-20%	-12%	1%	8%	13%	22%	39%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
09 INTEL		143	3%	-15%	-8%	-2%	3%	7%	14%	22%
10 INTEL		159	11%	-2%	4%	8%	10%	13%	20%	34%
01 INTEL		33	-16%	-51%	-42%	-27%	-20%	-7%	11%	90%
02 INTEL		38	-14%	-70%	-57%	-26%	-19%	-9%	78%	110%
03 INTEL		39	42%	-35%	-33%	13%	23%	40%	145%	182%
04 INTEL		37	-13%	-55%	-55%	-15%	-6%	-1%	17%	17%
5 INTEL		37	28%	-6%	3%	17%	22%	29%	93%	128%
6 INTEL		41	7%	-37%	-32%	-10%	-5%	10%	87%	94%
7 INTEL		39	37%	-20%	-18%	19%	32%	60%	93%	96%
8 INTEL		36	12%	-32%	-23%	1%	16%	21%	40%	65%
9 INTEL		42	-5%	-34%	-26%	-14%	-8%	-2%	33%	44%
O INTEL		44	12%	-15%	-14%	5%	12%	17%	41%	53%
1 INTEL		46	1%	-12%	-11%	-8%	-2%	4%	23%	62%
2 INTEL		36	-4%	-27%	-25%	-13%	-3%	2%	13%	16%
INTEL		28	11%	-1%	-1%	6%	9%	16%	22%	22%
INTEL		26	3%	-8%	-6%	-1%	0%	7%	16%	16%
INTEL		81	4%	-7%	-5%	0%	3%	7%	17%	23%
INTEL		77	7%	-6%	-5%	1%	4%	15%	22%	49%
INTEL		36	14%	-3%	-1%	7%	14%	21%	32%	35%
INTEL		25	0%	-13%	-10%	-4%	0%	5%	9%	12%
INTEL		35	17%	1%	4%	9%	18%	22%	34%	37%
INTEL		33	1%	-10%	-7%	-3%	-1%	5%	13%	14%
INTEL		76	6%	-7%	-4%	1%	5%	10%	18%	21%
INTEL		77	5%	-6%	-4%	1%	3%	8%	20%	23%
INTEL		77	13%	0%	3%	7%	12%	17%	28%	31%
BINTEL		61	1%	-8%	-6%	-2%	1%	4%	8%	9%
INTEL		61	10%	-1%	0%	5%	9%	12%	27%	31%
INTEL		48	9%	-3%	-2%	4%	5%	15%	22%	27%
1 INTEL		25	-5%	-19%	-11%	-8%	-5%	-2%	6%	8%
5 INTEL		45	7%	-2%	-1%	3%	7%	10%	15%	21%
S INTEL		59	4%	-14%	-5%	0%	3%	10%	19%	23%
7 INTEL		71	9%	-4%	2%	5%	8%	12%	18%	28%
, IINILL		/1	5/0	7/0	2/0	J/0	0/0	12/0	10/0	20/0

					5th	25th		75th	95th	
Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
INTEL		60	5%	-6%	-5%	2%	5%	8%	11%	17%
INTEL		54	5%	-5%	-3%	3%	4%	9%	13%	18%
INTEL		28	9%	-2%	3%	7%	9%	11%	14%	25%
INTEL		35	4%	-5%	-4%	1%	4%	7%	12%	13%
INTEL		25	4%	-4%	-3%	0%	4%	8%	14%	16%
TEL		26	-11%	-50%	-23%	-17%	-14%	-8%	12%	39%
EL		37	-8%	-30%	-29%	-14%	-8%	-4%	10%	46%
		54	11%	-25%	-4%	9%	11%	17%	21%	27%
		55	-5%	-34%	-13%	-8%	-5%	-2%	4%	9%
		49	8%	-10%	-2%	3%	6%	12%	24%	51%
		32	0%	-12%	-11%	-9%	-3%	8%	18%	46%
		56	1%	-25%	-17%	-9%	-2%	9%	26%	48%
		52	-3%	-26%	-16%	-9%	-4%	0%	13%	31%
		32	13%	0%	1%	8%	10%	20%	25%	31%
		29	4%	-10%	-9%	-4%	1%	9%	32%	36%
		30	10%	-4%	-3%	3%	9%	18%	26%	28%
		31	5%	-7%	-5%	1%	2%	9%	26%	28%
		28	13%	6%	6%	7%	11%	19%	28%	29%
		27	1%	-5%	-5%	-1%	2%	3%	8%	8%
		56	-8%	-40%	-30%	-15%	-10%	-1%	12%	68%
		56	-4%	-29%	-21%	-13%	-3%	3%	14%	19%
		57	13%	-5%	-4%	8%	10%	17%	26%	83%
		56	-4%	-30%	-17%	-8%	-4%	0%	8%	10%
		53	9%	-6%	-5%	3%	7%	14%	29%	32%
		50	4%	-6%	-4%	0%	2%	7%	11%	39%
		54	9%	2%	4%	6%	9%	13%	16%	25%
		54	4%	-11%	-8%	-1%	4%	8%	12%	21%
		44	5%	-11%	-4%	1%	5%	8%	18%	22%
		45	6%	-3%	-2%	4%	4%	8%	15%	17%
		34	-5%	-25%	-21%	-12%	-10%	0%	39%	42%
		39	-8%	-47%	-44%	-14%	-5%	2%	11%	16%
		37	13%	0%	1%	8%	13%	16%	26%	27%
		40	-2%	-12%	-12%	-6%	-4%	0%	9%	40%

					5th	25th		75th	95th	
r Employer _	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
5 INTEL		27	9%	-2%	0%	5%	8%	13%	17%	21%
6 INTEL		32	4%	-5%	-4%	-3%	3%	7%	17%	40%
7 INTEL		27	12%	1%	5%	10%	12%	16%	20%	23%
8 INTEL		31	4%	-7%	-6%	-1%	7%	8%	14%	14%
9 INTEL		28	4%	-5%	-5%	1%	3%	7%	15%	17%
O INTEL		33	6%	1%	2%	4%	6%	8%	15%	16%
INTEL		77	6%	-3%	2%	4%	6%	7%	10%	18%
INTEL		73	7%	-18%	0%	2%	7%	10%	19%	23%
INTEL		38	12%	4%	4%	8%	12%	16%	20%	22%
INTEL		37	16%	0%	0%	10%	17%	21%	28%	38%
INTEL		34	25%	5%	13%	19%	26%	30%	37%	41%
NTEL		166	6%	-13%	3%	4%	6%	7%	11%	54%
NTEL		152	3%	-11%	1%	2%	2%	3%	9%	14%
ΤEL		161	11%	-3%	4%	7%	10%	13%	20%	30%
EL		141	2%	-3%	-2%	0%	1%	3%	9%	13%
L		112	12%	0%	0%	8%	11%	17%	24%	48%
		81	17%	-3%	-2%	12%	16%	23%	31%	47%
_		72	14%	1%	5%	9%	14%	20%	27%	28%
L		77	0%	-5%	-5%	-3%	-2%	-2%	12%	12%
ĒL		75	14%	4%	7%	10%	12%	19%	24%	26%
TEL		62	7%	-4%	2%	5%	6%	8%	18%	31%
TEL		204	15%	-11%	2%	5%	6%	9%	72%	83%
EL		211	8%	-17%	1%	2%	2%	3%	41%	47%
ΓEL		205	13%	-1%	5%	8%	9%	12%	39%	49%
TEL		212	4%	-17%	-2%	0%	1%	4%	20%	80%
TEL		222	12%	-6%	3%	6%	9%	15%	35%	48%
TEL		213	13%	-3%	-2%	9%	12%	17%	33%	39%
ITEL		203	16%	3%	4%	10%	13%	18%	40%	48%
TEL		194	-2%	-9%	-5%	-3%	-3%	-2%	6%	12%
TEL		188	12%	2%	6%	10%	11%	12%	23%	25%
NTEL		186	7%	2%	3%	5%	5%	7%	17%	26%
ITEL		187	-6%	-17%	-15%	-8%	-6%	-3%	0%	10%
NTEL		216	-7%	-36%	-30%	-10%	-3%	0%	3%	13%

					5th	25th		75th	95th	
Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
INTEL		249	7%	-12%	-7%	5%	8%	10%	17%	47%
INTEL		261	-3%	-21%	-11%	-4%	-3%	-1%	4%	24%
INTEL		287	7%	-5%	-1%	3%	6%	9%	15%	32%
INTEL		282	6%	-10%	-3%	2%	5%	8%	18%	45%
INTEL		302	10%	0%	4%	7%	9%	12%	20%	56%
INTEL		319	-1%	-12%	-10%	-3%	0%	2%	5%	18%
INTEL		307	8%	-3%	2%	5%	8%	10%	13%	33%
TEL		317	5%	-2%	2%	4%	5%	6%	10%	14%
ΞL		<b>2</b> 9	13%	2%	4%	9%	11%	14%	23%	60%
_		<b>2</b> 5	4%	-3%	-3%	1%	4%	8%	11%	14%
		27	4%	-9%	-8%	-6%	1%	10%	21%	36%
		81	0%	-15%	-12%	-9%	-5%	7%	26%	40%
		67	-2%	-24%	-20%	-8%	-2%	5%	13%	35%
		57	14%	-2%	-1%	9%	14%	21%	27%	30%
		51	2%	-10%	-5%	-1%	1%	6%	10%	12%
		27	15%	2%	3%	10%	15%	22%	25%	38%
		89	-3%	-22%	-17%	-12%	-6%	2%	19%	64%
		70	-3%	-27%	-21%	-9%	-4%	2%	14%	37%
		63	12%	-7%	1%	7%	11%	16%	23%	69%
		79	-4%	-30%	-14%	-9%	-5%	-1%	7%	42%
		68	10%	-9%	-3%	6%	10%	13%	24%	28%
		51	5%	-4%	-2%	1%	5%	9%	13%	21%
		38	11%	-3%	0%	6%	11%	15%	23%	32%
		35	2%	-10%	-5%	0%	1%	3%	9%	14%
		32	8%	-1%	0%	5%	7%	11%	15%	29%
		<b>2</b> 5	7%	-10%	-8%	4%	7%	12%	18%	18%
		59	-10%	-43%	-42%	-18%	-12%	-3%	15%	48%
		68	-6%	-43%	-32%	-13%	-6%	3%	14%	43%
		70	13%	-22%	-1%	6%	12%	19%	25%	79%
		83	-3%	-27%	-12%	-6%	-4%	1%	8%	20%
		63	14%	-4%	-1%	7%	12%	17%	36%	51%
		60	6%	-14%	-7%	-1%	3%	11%	31%	83%
ΞL		54	11%	-8%	2%	8%	10%	15%	22%	32%

						5th	25th		75th	95th	
ear I	Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximuı
1 80	INTEL		46	3%	-5%	-3%	0%	2%	6%	9%	13%
009 I	INTEL		40	7%	-5%	-4%	3%	6%	10%	16%	17%
10 I	INTEL		43	8%	1%	2%	4%	6%	10%	17%	21%
01 I	INTEL		30	-5%	-51%	-44%	-14%	-11%	0%	55%	68%
02 I	INTEL		27	-10%	-40%	-36%	-15%	-8%	-5%	8%	20%
3 I	INTEL		27	9%	-22%	-17%	5%	13%	19%	28%	32%
4 I	INTEL		32	-1%	-15%	-12%	-7%	-3%	2%	11%	41%
5 I	INTEL		29	12%	-1%	1%	9%	10%	15%	26%	28%
6 I	INTEL		28	1%	-6%	-5%	-3%	0%	4%	12%	19%
7 I	INTEL		25	12%	-4%	5%	9%	11%	17%	22%	22%
5 I	INTEL		25	13%	6%	6%	10%	12%	14%	19%	21%
) (	INTEL		27	6%	-4%	0%	3%	5%	11%	13%	13%
5 I	INTEL		38	8%	2%	3%	3%	9%	12%	16%	16%
1 I	INTEL		38	5%	-3%	-3%	1%	2%	8%	24%	249
5 1	INTEL		125	7%	0%	2%	3%	4%	12%	16%	179
5 1	INTEL		94	4%	-3%	0%	1%	1%	6%	16%	19%
7	INTEL		68	10%	4%	6%	7%	8%	11%	21%	24%
3 1	INTEL		61	-2%	-5%	-4%	-3%	-2%	-2%	5%	7%
9 1	INTEL		116	13%	5%	8%	11%	11%	14%	21%	24%
) (	INTEL		98	10%	1%	3%	7%	8%	13%	18%	29%
	INTEL		66	2%	-14%	-1%	0%	1%	3%	10%	119
1	INTEL		144	6%	0%	3%	3%	4%	8%	17%	18%
1	INTEL		164	4%	-4%	0%	0%	2%	7%	16%	279
' I	INTEL		125	10%	3%	5%	7%	9%	10%	20%	429
	INTEL		121	-2%	-11%	-5%	-3%	-3%	-2%	-1%	24%
	INTEL		177	11%	-2%	9%	10%	11%	11%	14%	21%
) (	INTEL		188	6%	1%	3%	5%	6%	7%	13%	16%
1 I	INTEL		27	3%	-2%	-1%	0%	0%	3%	16%	17%
	INTEL		49	7%	2%	2%	3%	5%	6%	37%	37%
	INTEL		50	2%	0%	0%	1%	2%	3%	6%	16%
	INTEL		57	9%	4%	5%	7%	7%	9%	19%	23%
	INTEL		59	-5%	-62%	-6%	-3%	-3%	-2%	-1%	-1%
	INTEL		43	11%	6%	9%	10%	11%	11%	14%	15%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
010 INTEL		49	7%	3%	3%	5%	7%	9%	13%	13%
001 INTEL		78	0%	-24%	-11%	-8%	-2%	8%	13%	68%
002 INTEL		60	-3%	-22%	-15%	-7%	-3%	2%	9%	18%
003 INTEL		45	21%	-1%	1%	15%	23%	28%	33%	34%
004 INTEL		53	0%	-12%	-9%	-7%	-1%	6%	14%	20%
05 INTEL		84	11%	-8%	-1%	6%	12%	17%	23%	27%
6 INTEL		62	5%	-13%	-6%	-2%	3%	14%	18%	25%
7 INTEL		39	13%	3%	3%	7%	11%	20%	25%	26%
8 INTEL		41	2%	-6%	-5%	-1%	3%	6%	10%	11%
9 INTEL		27	12%	-1%	4%	6%	11%	18%	21%	24%
1 INTEL		148	-2%	-18%	-16%	-11%	-6%	5%	19%	46%
2 INTEL		147	-3%	-28%	-16%	-10%	-4%	1%	11%	22%
3 INTEL		147	23%	-3%	8%	18%	24%	30%	39%	45%
4 INTEL		129	1%	-12%	-8%	-2%	0%	5%	11%	32%
5 INTEL		204	9%	-5%	-2%	3%	7%	16%	24%	34%
INTEL		176	7%	-9%	-5%	1%	4%	14%	22%	31%
' INTEL		100	11%	-9%	3%	6%	9%	15%	24%	32%
INTEL		106	0%	-10%	-8%	-3%	0%	3%	9%	13%
9 INTEL		93	11%	-6%	2%	6%	10%	15%	26%	36%
) INTEL		75	7%	-3%	0%	4%	5%	9%	21%	22%
. INTEL		60	-10%	-24%	-21%	-14%	-11%	-6%	5%	9%
! INTEL		87	-10%	-28%	-21%	-15%	-10%	-4%	2%	4%
INTEL		133	22%	-1%	5%	16%	22%	27%	39%	46%
INTEL		154	-3%	-21%	-13%	-6%	-4%	-1%	7%	40%
INTEL		216	8%	-7%	-3%	3%	7%	11%	22%	34%
5 INTEL		192	4%	-9%	-3%	0%	2%	7%	15%	29%
INTEL		178	8%	-14%	-1%	6%	8%	12%	17%	26%
8 INTEL		160	4%	-12%	-4%	0%	4%	7%	12%	30%
9 INTEL		133	5%	-10%	-5%	1%	4%	8%	16%	26%
O INTEL		126	6%	-7%	-2%	3%	5%	8%	16%	19%
5 INTEL		26	10%	1%	1%	6%	9%	16%	26%	26%
6 INTEL		44	3%	-19%	-12%	-1%	4%	8%	13%	15%
7 INTEL		52	10%	2%	4%	7%	9%	13%	18%	19%

					5th	25th		75th	95th	
ar Employ	rer Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
8 INTEL		59	4%	-8%	-5%	0%	4%	7%	11%	29%
9 INTEL		53	5%	-3%	-1%	1%	4%	7%	13%	39%
.0 INTEL		56	6%	-1%	1%	3%	4%	8%	13%	15%
3 INTEL		26	11%	-14%	-11%	5%	12%	17%	27%	68%
1 INTEL		34	-6%	-24%	-20%	-14%	-10%	2%	10%	58%
3 INTEL		28	10%	-16%	-10%	6%	8%	16%	35%	35%
4 INTEL		26	-5%	-17%	-11%	-8%	-4%	-2%	4%	8%
1 INTEL		42	2%	-15%	-12%	-7%	-1%	8%	19%	24%
2 INTEL		35	1%	-20%	-11%	-7%	0%	8%	17%	26%
1 INTEL		155	-1%	-19%	-14%	-10%	-6%	7%	26%	33%
2 INTEL		128	-1%	-16%	-14%	-7%	-3%	2%	16%	26%
3 INTEL		92	13%	-8%	-1%	8%	12%	19%	26%	36%
4 INTEL		74	2%	-9%	-8%	-3%	1%	6%	13%	15%
INTEL		69	13%	-6%	-4%	8%	12%	20%	26%	32%
INTEL		56	9%	-5%	-3%	1%	6%	15%	29%	33%
INTEL		47	14%	-2%	6%	8%	12%	20%	26%	29%
INTEL		42	2%	-10%	-7%	-2%	1%	3%	22%	24%
INTEL		41	14%	-1%	3%	9%	11%	19%	27%	29%
INTEL		41	12%	1%	2%	4%	9%	18%	29%	33%
INTEL		192	-10%	-39%	-24%	-19%	-13%	-5%	9%	50%
INTEL		166	-8%	-36%	-19%	-15%	-8%	-2%	7%	16%
INTEL		118	12%	-9%	-3%	6%	11%	17%	27%	63%
INTEL		84	-2%	-17%	-13%	-6%	-2%	0%	9%	30%
INTEL		77	10%	-2%	1%	6%	9%	14%	26%	31%
INTEL		75	3%	-11%	-9%	-1%	2%	7%	19%	21%
INTEL		67	10%	-11%	2%	6%	9%	14%	23%	44%
INTEL		68	3%	-11%	-4%	-1%	3%	7%	13%	25%
INTEL		62	6%	-3%	-1%	3%	6%	8%	15%	22%
INTEL		62	8%	-3%	1%	4%	5%	11%	21%	31%
INTEL		127	-8%	-45%	-25%	-15%	-11%	0%	16%	40%
INTEL		123	-11%	-45%	-30%	-18%	-9%	-4%	5%	11%
INTEL		103	11%	-18%	-5%	7%	10%	16%	24%	42%
INTEL		96	-5%	-28%	-13%	-9%	-4%	-1%	8%	12%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximur
)5 INTEL		88	12%	-3%	3%	7%	9%	18%	27%	38%
06 INTEL		81	4%	-14%	-7%	-1%	4%	9%	17%	33%
7 INTEL		66	14%	2%	4%	9%	12%	17%	29%	34%
08 INTEL		65	5%	-5%	-4%	0%	3%	7%	25%	27%
9 INTEL		63	7%	-3%	-2%	2%	6%	11%	20%	35%
LO INTEL		63	9%	-3%	2%	5%	6%	11%	20%	26%
1 INTEL		110	-11%	-42%	-28%	-18%	-13%	-6%	12%	39%
2 INTEL		101	-12%	-49%	-42%	-17%	-10%	-5%	5%	31%
3 INTEL		87	12%	-20%	-8%	1%	12%	21%	33%	78%
4 INTEL		65	-4%	-37%	-15%	-8%	-4%	0%	8%	16%
INTEL		48	11%	-3%	-2%	6%	10%	14%	19%	63%
INTEL		49	2%	-16%	-9%	-4%	1%	7%	13%	28%
INTEL		27	15%	-6%	5%	12%	15%	17%	22%	31%
INTEL		30	9%	-3%	-1%	4%	8%	12%	23%	32%
INTEL		26	5%	-8%	-5%	2%	5%	9%	12%	149
INTEL		30	9%	-2%	1%	5%	7%	10%	28%	379
INTEL		30	-1%	-18%	-17%	-14%	-2%	3%	28%	50%
INTEL		27	-16%	-62%	-40%	-33%	-21%	-10%	22%	83%
INTEL		27	0%	-17%	-17%	-8%	-3%	6%	12%	27%
INTEL		115	-3%	-23%	-14%	-9%	-6%	1%	17%	44%
INTEL		91	-3%	-19%	-17%	-8%	-4%	0%	14%	40%
INTEL		58	10%	-8%	-5%	4%	9%	14%	25%	26%
INTEL		43	0%	-8%	-8%	-5%	-1%	4%	8%	8%
INTEL		35	8%	0%	1%	3%	5%	12%	21%	25%
INTEL		35	1%	-13%	-6%	0%	1%	4%	8%	9%
INTEL		28	12%	3%	3%	6%	10%	15%	25%	33%
INTEL		29	0%	-8%	-7%	-3%	-1%	3%	8%	9%
INTEL		28	12%	-1%	5%	7%	9%	14%	24%	32%
INTEL		26	6%	-2%	-1%	4%	4%	6%	21%	21%
INTEL		83	-8%	-21%	-19%	-15%	-12%	-2%	8%	18%
INTEL		70	-4%	-26%	-22%	-11%	-4%	3%	14%	19%
3 INTEL		54	10%	-12%	-1%	6%	10%	16%	22%	24%
4 INTEL		61	-4%	-21%	-12%	-7%	-5%	0%	5%	12%

				5th	25th		75th	95th	
Employer Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
INTEL	57	7%	-7%	-2%	3%	6%	11%	16%	18%
INTEL	64	3%	-10%	-9%	0%	2%	8%	15%	21%
INTEL	49	9%	-4%	4%	7%	8%	12%	20%	26%
INTEL	42	2%	-8%	-5%	-1%	1%	5%	11%	12%
INTEL	40	7%	-12%	-4%	2%	7%	11%	17%	21%
NTEL	43	6%	-5%	0%	3%	5%	9%	16%	28%
TEL	67	-7%	-45%	-31%	-16%	-12%	2%	26%	35%
TEL	63	-9%	-48%	-35%	-17%	-6%	-1%	9%	16%
EL	60	12%	-6%	-5%	7%	11%	18%	26%	31%
EL	56	-3%	-20%	-11%	-7%	-4%	-1%	8%	9%
EL	46	6%	-7%	-5%	4%	5%	10%	17%	20%
L	43	1%	-9%	-8%	-4%	-1%	6%	14%	15%
L	46	10%	-1%	1%	8%	10%	13%	19%	21%
	47	7%	-4%	-1%	3%	6%	10%	18%	20%
	43	4%	-6%	-4%	1%	3%	6%	14%	17%
	41	6%	-2%	-1%	4%	4%	8%	15%	18%
	29	-10%	-40%	-19%	-15%	-13%	-4%	6%	10%
	28	-10%	-32%	-29%	-15%	-8%	-5%	4%	21%
	28	9%	-23%	-7%	7%	10%	13%	28%	30%
	25	-6%	-16%	-14%	-11%	-6%	-3%	2%	11%
	27	5%	-5%	0%	2%	4%	7%	11%	11%
	28	5%	-11%	-10%	-1%	5%	13%	15%	16%
	35	13%	-5%	-3%	7%	14%	19%	25%	31%
	36	2%	-8%	-6%	-3%	-1%	5%	29%	30%
	63	14%	-3%	3%	8%	16%	20%	27%	33%
	37	8%	-7%	-3%	2%	6%	10%	28%	39%
	30	10%	2%	4%	6%	8%	11%	21%	26%
	29	1%	-4%	-3%	-1%	1%	4%	9%	15%
	28	13%	2%	6%	9%	10%	15%	30%	36%
	34	-4%	-20%	-16%	-12%	-8%	0%	17%	41%
	39	-1%	-18%	-16%	-11%	-4%	2%	54%	59%
	54	11%	-6%	-3%	7%	10%	17%	24%	33%
EL	59	-3%	-23%	-15%	-5%	-4%	0%	6%	15%

					5th	25th		75th	95th	
ar Employ	er Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
05 INTEL		53	8%	-4%	0%	2%	6%	12%	30%	32%
06 INTEL		40	9%	-9%	0%	4%	8%	11%	22%	25%
07 INTEL		31	8%	-2%	-1%	3%	9%	12%	16%	17%
08 INTEL		27	5%	-7%	-4%	1%	5%	11%	14%	20%
09 INTEL		27	5%	-6%	-5%	0%	4%	8%	15%	16%
10 INTEL		30	7%	0%	0%	4%	4%	10%	16%	18%
01 INTEL		47	-11%	-43%	-39%	-16%	-12%	-5%	6%	36%
02 INTEL		62	-11%	-39%	-38%	-16%	-8%	-4%	8%	21%
03 INTEL		98	15%	-20%	-15%	4%	12%	21%	79%	83%
04 INTEL		123	-4%	-45%	-27%	-12%	-4%	1%	31%	46%
05 INTEL		152	10%	-6%	-2%	5%	8%	14%	31%	39%
06 INTEL		161	7%	-13%	-4%	2%	7%	11%	18%	20%
07 INTEL		139	11%	-1%	4%	7%	10%	15%	22%	28%
08 INTEL		121	4%	-11%	-5%	0%	4%	7%	16%	25%
09 INTEL		124	10%	-4%	0%	6%	10%	14%	19%	27%
10 INTEL		137	9%	-4%	3%	5%	9%	13%	17%	28%
01 INTEL		46	-7%	-50%	-45%	-15%	-11%	5%	18%	45%
02 INTEL		36	-6%	-39%	-29%	-16%	-8%	-2%	34%	59%
O3 INTEL		46	11%	-26%	-21%	8%	12%	18%	31%	33%
04 INTEL		56	-6%	-17%	-14%	-11%	-6%	-3%	4%	5%
05 INTEL		53	11%	-4%	2%	5%	9%	12%	38%	45%
06 INTEL		44	4%	-14%	-8%	-1%	2%	7%	16%	44%
07 INTEL		46	13%	-17%	5%	9%	11%	16%	44%	49%
08 INTEL		45	5%	-22%	-6%	1%	5%	9%	20%	24%
09 INTEL		45	5%	-12%	-5%	2%	7%	9%	16%	16%
10 INTEL		61	7%	-2%	0%	4%	6%	11%	16%	20%
08 INTEL		26	5%	-9%	-3%	1%	3%	7%	22%	25%
09 INTEL		29	13%	-1%	4%	10%	12%	15%	22%	39%
10 INTEL		35	11%	-2%	1%	5%	7%	19%	28%	31%
05 INTEL		39	8%	-9%	-4%	5%	7%	11%	21%	25%
06 INTEL		34	5%	-9%	-9%	1%	2%	9%	19%	20%
07 INTEL		32	11%	0%	1%	6%	8%	14%	28%	34%
08 INTEL		29	1%	-12%	-10%	-1%	0%	5%	18%	26%

					5th	25th		75th	95th	
r Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximur
9 INTEL		34	8%	-1%	0%	4%	8%	10%	18%	22%
2 INTEL		26	-9%	-36%	-20%	-15%	-7%	-2%	3%	4%
INTEL		29	7%	-16%	-14%	5%	8%	10%	18%	34%
INTEL		26	-4%	-18%	-12%	-8%	-4%	1%	6%	8%
INTEL		55	11%	-6%	-3%	4%	9%	19%	25%	32%
ITEL		43	5%	-4%	-3%	0%	2%	9%	17%	18%
EL		39	12%	2%	3%	8%	11%	15%	25%	25%
L		32	5%	-6%	-4%	1%	5%	8%	14%	26%
		30	6%	-4%	-2%	4%	6%	8%	13%	17%
		30	10%	1%	3%	4%	8%	15%	26%	26%
		25	9%	-3%	-3%	5%	8%	14%	25%	25%
		26	2%	-14%	-5%	-4%	3%	8%	11%	14%
		25	-4%	-28%	-19%	-7%	-4%	1%	3%	129
		51	14%	-18%	5%	9%	14%	16%	25%	56%
		62	7%	-26%	-18%	4%	8%	12%	21%	40%
		50	5%	-9%	-8%	-2%	4%	9%	18%	479
		60	11%	-2%	1%	8%	10%	13%	23%	27%
		69	-1%	-60%	-32%	-18%	-13%	5%	76%	1049
		219	-15%	-65%	-53%	-27%	-16%	-7%	35%	88%
		360	23%	-43%	-31%	12%	19%	27%	119%	1819
ı		427	-6%	-55%	-46%	-10%	-4%	2%	18%	91%
		485	21%	-6%	3%	10%	14%	22%	70%	186
		547	1%	-38%	-29%	-8%	-3%	5%	52%	92%
		583	20%	-25%	-18%	13%	17%	24%	64%	116
		591	10%	-37%	-18%	3%	11%	18%	29%	60%
		583	0%	-24%	-14%	-5%	0%	6%	14%	43%
		582	14%	-4%	6%	11%	13%	17%	25%	69%
		37	-12%	-59%	-33%	-23%	-18%	-2%	15%	76%
		51	-7%	-66%	-49%	-23%	-12%	-2%	62%	79%
		99	-6%	-59%	-51%	-9%	-3%	2%	25%	37%
		115	31%	-4%	8%	14%	18%	37%	92%	1479
		127	4%	-37%	-33%	-8%	0%	9%	65%	91%
_		145	22%	-24%	-16%	17%	22%	31%	53%	1019

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
008 INTEL		168	18%	-29%	-13%	6%	18%	29%	49%	68%
009 INTEL		160	-5%	-33%	-25%	-13%	-7%	1%	18%	36%
010 INTEL		178	13%	-6%	0%	9%	11%	15%	27%	68%
001 INTEL		400	-1%	-26%	-12%	-9%	-3%	5%	13%	51%
002 INTEL		316	-2%	-25%	-18%	-7%	-3%	4%	13%	39%
003 INTEL		206	11%	-8%	-2%	6%	11%	17%	25%	42%
004 INTEL		172	2%	-19%	-9%	-2%	1%	6%	13%	28%
005 INTEL		164	12%	-4%	0%	6%	12%	17%	24%	42%
006 INTEL		161	11%	-7%	-3%	4%	12%	17%	23%	39%
007 INTEL		114	14%	-3%	1%	7%	16%	21%	27%	33%
008 INTEL		114	2%	-9%	-6%	-2%	1%	6%	10%	18%
009 INTEL		129	16%	2%	5%	10%	16%	22%	29%	30%
010 INTEL		98	16%	0%	3%	6%	18%	21%	31%	38%
001 INTEL		515	0%	-27%	-14%	-9%	-3%	6%	25%	74%
002 INTEL		548	-4%	-29%	-16%	-9%	-5%	0%	12%	33%
003 INTEL		554	11%	-9%	-2%	6%	10%	15%	23%	46%
004 INTEL		577	-1%	-19%	-10%	-5%	-3%	3%	11%	33%
05 INTEL		450	13%	-6%	0%	6%	12%	19%	26%	46%
006 INTEL		355	7%	-11%	-5%	1%	5%	13%	21%	29%
007 INTEL		314	11%	-5%	0%	6%	9%	14%	24%	34%
008 INTEL		333	1%	-10%	-5%	-2%	0%	3%	8%	24%
009 INTEL		342	13%	-4%	2%	7%	10%	19%	26%	34%
010 INTEL		332	11%	-3%	2%	4%	6%	19%	28%	53%
001 INTEL		397	-4%	-27%	-21%	-12%	-7%	2%	16%	61%
002 INTEL		402	-7%	-40%	-23%	-13%	-7%	-2%	8%	64%
03 INTEL		392	11%	-22%	-3%	7%	10%	16%	23%	63%
004 INTEL		407	-2%	-29%	-14%	-7%	-4%	0%	9%	49%
05 INTEL		312	13%	-7%	0%	7%	12%	18%	30%	39%
06 INTEL		383	6%	-12%	-4%	1%	4%	9%	19%	33%
07 INTEL		347	10%	-7%	2%	6%	9%	14%	20%	31%
008 INTEL		305	4%	-16%	-5%	0%	3%	7%	13%	32%
009 INTEL		322	7%	-8%	-3%	2%	7%	10%	19%	43%
010 INTEL		328	8%	-8%	0%	4%	6%	11%	20%	43%

					5th	25th		75th	95th	
Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximur
INTEL		652	-9%	-52%	-26%	-18%	-11%	-2%	24%	58%
2 INTEL		726	-12%	-50%	-37%	-21%	-11%	-3%	9%	76%
BINTEL		722	14%	-28%	-14%	6%	11%	19%	42%	103%
INTEL		599	-3%	-36%	-22%	-11%	-5%	1%	42%	46%
INTEL		301	13%	-8%	0%	7%	11%	18%	35%	60%
INTEL		319	6%	-18%	-5%	1%	6%	11%	17%	40%
INTEL		304	12%	0%	3%	8%	11%	15%	23%	53%
NTEL		332	5%	-12%	-5%	0%	4%	8%	15%	35%
NTEL		329	7%	-10%	-2%	2%	7%	11%	18%	42%
NTEL		388	9%	-6%	0%	4%	7%	13%	24%	45%
NTEL		255	-6%	-54%	-32%	-15%	-11%	1%	44%	77%
NTEL		291	-10%	-47%	-42%	-16%	-10%	-4%	28%	71%
NTEL		277	13%	-31%	-10%	8%	13%	21%	32%	1149
ITEL		211	-3%	-49%	-15%	-8%	-5%	-1%	13%	56%
ITEL		133	14%	-9%	-1%	8%	12%	17%	40%	56%
TEL		139	1%	-24%	-14%	-4%	1%	5%	13%	39%
ITEL		103	12%	-13%	1%	9%	11%	17%	23%	28%
TEL		111	4%	-16%	-9%	0%	4%	9%	17%	37%
TEL		106	5%	-8%	-6%	0%	5%	9%	13%	25%
ITEL		110	7%	-8%	-2%	3%	5%	9%	17%	39%
TEL		107	-3%	-41%	-32%	-16%	-10%	5%	58%	859
ITEL		105	-11%	-51%	-45%	-20%	-12%	-5%	27%	78%
TEL		97	18%	-24%	-14%	10%	15%	26%	35%	145
ITEL		83	-4%	-32%	-18%	-8%	-5%	1%	11%	689
NTEL		45	13%	-12%	-4%	7%	10%	15%	45%	63%
NTEL		35	0%	-25%	-24%	-5%	-2%	6%	15%	43%
ITEL		27	13%	-20%	-10%	11%	15%	18%	22%	23%
NTEL		39	10%	-12%	-12%	2%	8%	14%	45%	48%
NTEL		40	3%	-22%	-10%	-1%	2%	10%	25%	25%
NTEL		31	9%	-1%	0%	5%	8%	10%	16%	53%
NTEL		34	14%	-1%	1%	8%	16%	20%	26%	31%
NTEL		47	13%	-3%	-2%	7%	13%	18%	26%	32%
INTEL		38	13%	-2%	1%	7%	13%	21%	25%	26%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
008 INTEL		25	-1%	-8%	-6%	-4%	-2%	0%	4%	6%
009 INTEL		25	13%	3%	6%	9%	12%	19%	23%	24%
005 INTEL		122	11%	-9%	1%	6%	10%	16%	25%	29%
006 INTEL		142	7%	-9%	-5%	1%	6%	12%	21%	35%
007 INTEL		144	11%	-1%	3%	6%	9%	14%	25%	29%
008 INTEL		140	1%	-8%	-5%	-1%	2%	4%	8%	14%
009 INTEL		130	13%	-1%	2%	7%	12%	18%	27%	42%
10 INTEL		96	12%	-1%	2%	5%	9%	18%	25%	30%
005 INTEL		128	10%	-9%	-4%	6%	10%	15%	23%	31%
006 INTEL		157	5%	-9%	-4%	1%	4%	9%	17%	31%
007 INTEL		175	9%	-15%	-1%	5%	8%	12%	22%	45%
008 INTEL		153	4%	-10%	-4%	0%	4%	7%	14%	22%
009 INTEL		155	7%	-7%	-4%	2%	6%	12%	19%	32%
10 INTEL		161	7%	-11%	0%	4%	6%	11%	19%	24%
04 INTEL		151	-5%	-48%	-29%	-15%	-4%	0%	36%	46%
05 INTEL		560	12%	-16%	-4%	5%	10%	17%	35%	64%
06 INTEL		640	6%	-14%	-5%	1%	6%	10%	18%	60%
07 INTEL		651	14%	-5%	4%	9%	12%	17%	34%	60%
08 INTEL		427	5%	-13%	-6%	0%	4%	8%	17%	55%
009 INTEL		537	13%	-10%	0%	7%	13%	19%	23%	31%
10 INTEL		513	10%	-6%	2%	5%	8%	14%	25%	39%
04 INTEL		79	-3%	-39%	-17%	-8%	-5%	2%	8%	51%
05 INTEL		176	14%	-9%	1%	7%	11%	17%	43%	68%
06 INTEL		260	2%	-26%	-14%	-3%	0%	5%	19%	54%
007 INTEL		291	14%	-26%	1%	10%	13%	17%	31%	64%
08 INTEL		175	5%	-57%	-8%	1%	5%	10%	18%	53%
009 INTEL		166	5%	-8%	-4%	0%	4%	8%	17%	29%
10 INTEL		181	6%	-8%	-1%	4%	5%	8%	15%	34%
005 INTEL		49	13%	-5%	2%	7%	9%	17%	32%	83%
006 INTEL		73	0%	-29%	-27%	-8%	-1%	5%	28%	78%
07 INTEL		79	17%	-33%	-16%	13%	16%	19%	37%	83%
008 INTEL		40	8%	-17%	-12%	3%	8%	14%	24%	28%
009 INTEL		37	3%	-23%	-13%	-4%	1%	8%	30%	43%

					5th	25th		75th	95th	
Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
INTEL		35	12%	3%	5%	7%	10%	16%	24%	24%
INTEL		53	1%	-20%	-11%	-6%	-1%	7%	13%	27%
INTEL		69	-2%	-24%	-17%	-9%	-3%	5%	13%	18%
INTEL		62	14%	-8%	-5%	6%	14%	21%	39%	49%
INTEL		75	3%	-17%	-10%	-2%	1%	8%	25%	29%
INTEL		109	12%	-3%	3%	8%	11%	14%	26%	34%
INTEL		93	12%	-6%	-1%	5%	12%	20%	26%	33%
NTEL		66	15%	-1%	1%	8%	12%	22%	28%	31%
TEL		48	1%	-7%	-5%	-2%	1%	3%	10%	14%
TEL		48	15%	4%	4%	10%	14%	20%	26%	28%
ITEL		45	16%	-1%	3%	7%	15%	25%	30%	31%
TEL		80	2%	-16%	-14%	-8%	-2%	9%	28%	40%
EL		134	-3%	-29%	-21%	-9%	-3%	3%	13%	25%
L		159	13%	-12%	-2%	7%	11%	19%	26%	54%
		173	5%	-23%	-8%	-2%	3%	8%	25%	38%
		270	10%	-9%	0%	4%	8%	15%	24%	31%
		265	7%	-9%	-6%	1%	6%	12%	23%	32%
		245	13%	-1%	2%	7%	11%	19%	27%	34%
		194	1%	-9%	-5%	-2%	1%	3%	8%	25%
		211	13%	-10%	2%	8%	11%	18%	24%	38%
		185	12%	-6%	2%	5%	9%	18%	29%	45%
		77	-3%	-38%	-19%	-11%	-5%	3%	17%	449
		123	-5%	-35%	-22%	-9%	-5%	1%	10%	219
		163	11%	-12%	-4%	6%	10%	17%	25%	319
		174	0%	-20%	-11%	-4%	-1%	4%	12%	46%
		222	7%	-9%	-5%	3%	7%	12%	20%	33%
		215	4%	-12%	-7%	0%	4%	8%	14%	25%
		214	11%	-11%	0%	7%	11%	15%	24%	429
		220	4%	-8%	-4%	1%	4%	6%	13%	27%
		217	7%	-8%	-3%	3%	7%	11%	16%	33%
L		232	7%	-9%	-2%	4%	5%	9%	16%	50%
L		62	-6%	-50%	-24%	-13%	-6%	1%	15%	46%
EL		97	-8%	-54%	-36%	-13%	-6%	0%	8%	27%

						5th	25th		75th	95th	
Year	Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2003	INTEL		143	13%	-18%	-5%	8%	12%	18%	27%	39%
2004	INTEL		174	1%	-21%	-12%	-4%	0%	3%	14%	48%
2005	INTEL		246	9%	-11%	-2%	5%	8%	13%	21%	71%
2006	INTEL		242	3%	-11%	-6%	-2%	3%	7%	13%	41%
2007	INTEL		227	16%	0%	7%	11%	14%	19%	29%	64%
2008	INTEL		205	5%	-11%	-4%	1%	5%	8%	14%	26%
2009	INTEL		202	7%	-11%	-2%	2%	6%	9%	21%	40%
2010	INTEL		211	8%	-4%	1%	4%	6%	10%	17%	45%
2001	INTEL		42	-5%	-44%	-25%	-13%	-10%	2%	24%	56%
002	INTEL		79	-12%	-46%	-43%	-16%	-11%	-6%	3%	49%
003	INTEL		106	14%	-23%	-5%	8%	12%	21%	31%	37%
004	INTEL		102	-4%	-18%	-15%	-8%	-4%	-1%	12%	15%
.005	INTEL		126	11%	-8%	-3%	6%	9%	14%	25%	68%
006	INTEL		133	0%	-20%	-12%	-4%	-1%	3%	13%	46%
007	INTEL		142	15%	-23%	1%	11%	14%	18%	29%	70%
800	INTEL		150	6%	-16%	-6%	2%	7%	10%	16%	36%
.009	INTEL		142	5%	-11%	-4%	0%	4%	9%	16%	41%
010	INTEL		153	7%	-6%	1%	3%	5%	10%	18%	43%
.002	INTEL		34	-7%	-53%	-51%	-18%	-11%	1%	56%	58%
003	INTEL		36	24%	-31%	-26%	11%	18%	27%	155%	194%
004	INTEL		51	-5%	-42%	-18%	-11%	-5%	1%	9%	19%
.005	INTEL		41	14%	-1%	1%	6%	9%	15%	58%	82%
006	INTEL		49	-1%	-23%	-16%	-5%	-2%	2%	12%	40%
007	INTEL		49	15%	-16%	-2%	13%	16%	20%	29%	33%
800	INTEL		50	8%	-25%	-6%	4%	9%	14%	20%	26%
009	INTEL		49	2%	-9%	-7%	-2%	1%	4%	15%	26%
010	INTEL		58	11%	-21%	0%	8%	10%	14%	19%	88%
001	INTEL		41	0%	-14%	-13%	-9%	-2%	4%	35%	46%
001	INTEL		83	1%	-14%	-13%	-9%	-2%	8%	25%	48%
002	INTEL		52	-3%	-19%	-16%	-9%	-4%	2%	14%	20%
2003	INTEL		42	12%	-2%	-1%	5%	11%	18%	32%	34%
004	INTEL		39	2%	-7%	-5%	-2%	1%	3%	15%	23%
2005	INTEL		36	8%	-1%	0%	3%	6%	11%	25%	25%

					5th	25th		75th	95th	
ar Employe <u>r</u>	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximur
06 INTEL		34	3%	-9%	-1%	1%	2%	6%	9%	10%
01 INTEL		89	-7%	-23%	-20%	-14%	-11%	-1%	9%	49%
2 INTEL		67	-6%	-24%	-18%	-11%	-5%	-2%	5%	17%
O3 INTEL		53	8%	-13%	-10%	5%	9%	15%	19%	21%
4 INTEL		44	-3%	-19%	-10%	-7%	-4%	2%	8%	9%
INTEL		35	6%	-2%	-1%	1%	3%	11%	19%	33%
5 INTEL		32	4%	-7%	-7%	-1%	3%	8%	16%	20%
INTEL		87	-7%	-51%	-23%	-13%	-8%	-2%	10%	45%
INTEL		64	-9%	-37%	-29%	-16%	-10%	-3%	7%	58%
3 INTEL		38	17%	-18%	-11%	8%	12%	21%	96%	109%
INTEL		32	-1%	-34%	-11%	-3%	-1%	4%	10%	13%
INTEL		<b>2</b> 6	8%	-8%	-8%	3%	9%	12%	19%	22%
INTEL		48	-8%	-54%	-21%	-15%	-9%	-2%	7%	57%
2 INTEL		38	-8%	-26%	-23%	-14%	-9%	-4%	4%	38%
INTEL		32	16%	-23%	-18%	8%	15%	22%	37%	89%
INTEL		<b>25</b>	34%	-34%	-33%	13%	19%	30%	169%	1759
INTEL		<b>2</b> 9	23%	8%	8%	10%	13%	28%	66%	66%
INTEL		<b>2</b> 6	14%	-25%	-19%	6%	15%	24%	31%	51%
INTEL		<b>2</b> 6	-2%	-17%	-14%	-9%	-1%	2%	14%	19%
INTEL		53	-1%	-43%	-24%	-13%	-8%	7%	56%	719
INTEL		48	-7%	-49%	-45%	-20%	-14%	-2%	57%	96%
INTEL		38	18%	-30%	-27%	3%	15%	21%	161%	1619
INTEL		41	-6%	-39%	-17%	-12%	-5%	1%	11%	129
INTEL		54	23%	0%	2%	8%	14%	20%	85%	88%
INTEL		27	2%	-24%	-24%	-4%	1%	2%	47%	47%
INTEL		<b>2</b> 5	12%	-2%	0%	7%	9%	16%	23%	32%
INTEL		27	-6%	-57%	-53%	-26%	-13%	-4%	72%	87%
INTEL		56	38%	-45%	-44%	13%	19%	27%	149%	2069
INTEL		55	-11%	-58%	-51%	-12%	-6%	-1%	7%	9%
INTEL		75	17%	0%	5%	9%	12%	16%	61%	66%
INTEL		74	0%	-40%	-19%	-8%	-4%	1%	43%	68%
' INTEL		101	19%	-25%	-17%	12%	17%	26%	73%	92%
8 INTEL		88	9%	-25%	-17%	3%	10%	17%	26%	53%

					5th	25th		75th	95th	
ır Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
9 INTEL		84	-1%	-26%	-13%	-5%	0%	6%	12%	23%
.O INTEL		82	12%	-3%	5%	10%	11%	15%	21%	32%
5 INTEL		46	14%	-3%	0%	7%	14%	21%	25%	28%
6 INTEL		61	9%	-3%	0%	3%	6%	14%	23%	28%
7 INTEL		53	14%	3%	5%	7%	11%	19%	27%	30%
BINTEL		46	0%	-5%	-4%	-2%	0%	2%	8%	13%
INTEL		47	14%	-4%	1%	8%	13%	19%	31%	37%
INTEL		36	10%	2%	3%	5%	9%	14%	22%	25%
INTEL		50	-3%	-18%	-14%	-6%	-4%	-1%	11%	18%
INTEL		140	11%	-2%	1%	7%	10%	15%	28%	35%
INTEL		194	7%	-9%	-3%	2%	5%	12%	20%	42%
INTEL		190	11%	-3%	3%	6%	11%	15%	21%	31%
INTEL		154	4%	-12%	-7%	0%	4%	8%	14%	29%
INTEL		143	7%	-7%	-2%	3%	6%	11%	18%	23%
INTEL		133	7%	-5%	0%	4%	5%	9%	19%	35%
NTEL		80	-8%	-54%	-25%	-16%	-11%	-3%	21%	61%
NTEL		178	-11%	-45%	-33%	-17%	-10%	-4%	6%	10%
ITEL		196	12%	-16%	-5%	7%	11%	18%	26%	89%
NTEL		202	-1%	-17%	-12%	-6%	-3%	1%	13%	48%
NTEL		328	12%	-9%	1%	7%	11%	16%	27%	57%
NTEL		395	3%	-14%	-7%	-2%	2%	7%	17%	24%
NTEL		406	12%	-5%	3%	8%	11%	16%	24%	60%
ITEL		354	5%	-12%	-4%	0%	4%	7%	15%	29%
ITEL		342	6%	-9%	-3%	2%	6%	10%	17%	30%
NTEL		318	6%	-4%	0%	4%	5%	9%	16%	28%
NTEL		57	-13%	-44%	-43%	-18%	-14%	-6%	10%	41%
NTEL		169	-9%	-44%	-27%	-16%	-9%	-4%	5%	48%
INTEL		229	14%	-28%	-6%	8%	13%	20%	32%	1149
INTEL		237	-4%	-39%	-15%	-8%	-5%	0%	9%	78%
NTEL		341	13%	-7%	1%	8%	11%	16%	27%	65%
NTEL		418	2%	-26%	-10%	-3%	0%	6%	15%	56%
NTEL		482	12%	-18%	2%	9%	11%	15%	24%	53%
INTEL		468	6%	-17%	-5%	2%	6%	10%	18%	38%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
9 INTEL		441	4%	-30%	-6%	0%	4%	8%	15%	28%
LO INTEL		441	7%	-73%	0%	4%	5%	9%	18%	57%
01 INTEL		34	-10%	-46%	-43%	-18%	-8%	1%	23%	48%
2 INTEL		68	-7%	-47%	-42%	-16%	-9%	-5%	61%	85%
INTEL		119	21%	-31%	-18%	10%	17%	29%	95%	150%
INTEL		141	-5%	-46%	-19%	-10%	-5%	0%	12%	25%
INTEL		207	13%	-34%	3%	8%	11%	16%	33%	61%
INTEL		248	0%	-33%	-19%	-7%	-2%	4%	26%	82%
INTEL		309	15%	-27%	0%	10%	15%	19%	36%	67%
INTEL		309	8%	-44%	-11%	3%	8%	15%	25%	49%
NTEL		287	2%	-20%	-11%	-4%	1%	6%	16%	27%
NTEL		307	11%	-12%	0%	7%	9%	14%	27%	57%
NTEL		31	3%	-15%	-12%	-5%	-1%	9%	23%	42%
NTEL		83	3%	-15%	-11%	-7%	-1%	8%	25%	89%
NTEL		73	-5%	-24%	-20%	-8%	-3%	0%	7%	12%
TEL		54	10%	-8%	-3%	5%	9%	12%	28%	54%
TEL		36	-1%	-8%	-7%	-3%	-2%	2%	8%	10%
EL		90	-9%	-22%	-19%	-14%	-11%	-3%	6%	10%
L		94	-6%	-33%	-20%	-12%	-5%	1%	9%	16%
EL		80	12%	-13%	-5%	7%	9%	17%	23%	62%
TEL		74	-4%	-36%	-14%	-10%	-5%	-1%	7%	48%
TEL		145	-9%	-54%	-25%	-16%	-11%	-4%	10%	41%
TEL		135	-6%	-41%	-28%	-14%	-5%	1%	9%	53%
TEL		115	15%	-21%	2%	9%	12%	20%	29%	108%
TEL		130	-4%	-33%	-16%	-10%	-4%	2%	10%	47%
ITEL		34	12%	-2%	1%	5%	9%	15%	35%	38%
TEL		39	4%	-6%	-3%	-1%	4%	6%	14%	20%
TEL		28	11%	-1%	3%	6%	11%	14%	20%	29%
ITEL		27	5%	-15%	-14%	1%	5%	9%	14%	36%
NTEL		28	9%	-2%	0%	4%	6%	8%	25%	43%
NTEL		88	-12%	-54%	-28%	-19%	-13%	-5%	7%	60%
NTEL		80	-10%	-44%	-32%	-17%	-9%	-4%	5%	63%
INTEL		86	13%	-34%	-8%	9%	13%	21%	27%	40%

					5th	25th		75th	95th	
ear Empl	loyer Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2004 INTEL	L	86	-5%	-40%	-15%	-9%	-5%	-2%	8%	12%
2002 INTEL	L	26	-10%	-47%	-44%	-21%	-12%	-1%	15%	44%
2006 INTEL	L	30	7%	-8%	-6%	2%	7%	12%	21%	28%
2007 INTEL	L	33	12%	3%	4%	7%	10%	19%	21%	22%
.010 INTEL	L	26	14%	-1%	-1%	5%	11%	23%	34%	36%
006 INTEL	L	43	7%	-8%	-2%	1%	7%	11%	19%	31%
07 INTEL	L	36	10%	-2%	-1%	5%	9%	14%	21%	26%
08 INTEL	L	34	4%	-10%	-5%	1%	3%	8%	14%	14%
09 INTEL	L	38	6%	-6%	-5%	2%	7%	11%	20%	21%
10 INTEL	L	25	7%	-2%	0%	3%	4%	13%	18%	21%
06 INTEL	L	96	4%	-9%	-4%	-1%	5%	8%	17%	32%
07 INTEL	L	77	10%	-13%	4%	7%	10%	14%	20%	24%
08 INTEL	L	67	3%	-7%	-4%	0%	3%	7%	11%	14%
09 INTEL	L	74	8%	-5%	-3%	4%	9%	12%	19%	22%
10 INTEL	L	75	8%	-3%	0%	4%	6%	11%	20%	23%
6 INTEL	L	63	0%	-19%	-13%	-5%	-1%	1%	16%	57%
7 INTEL	L	74	13%	-26%	1%	9%	12%	17%	28%	73%
8 INTEL	L	64	4%	-20%	-13%	-1%	4%	11%	16%	36%
9 INTEL	L	69	5%	-10%	-6%	0%	6%	9%	14%	25%
10 INTEL	L	62	5%	-6%	-1%	4%	5%	7%	12%	22%
02 INTEL	L	33	-11%	-39%	-39%	-24%	-13%	-7%	46%	69%
O3 INTEL	L	76	12%	-18%	-15%	-9%	13%	20%	88%	99%
04 INTEL	L	89	0%	-33%	-25%	-9%	-1%	5%	30%	54%
OS INTEL	L	102	18%	-12%	2%	10%	16%	25%	44%	72%
06 INTEL	L	105	16%	-5%	0%	9%	16%	21%	33%	56%
07 INTEL	L	98	18%	2%	6%	11%	17%	22%	36%	66%
08 INTEL	L	85	6%	-10%	-4%	0%	5%	9%	23%	26%
09 INTEL	L	88	13%	-1%	1%	9%	13%	17%	23%	55%
10 INTEL	L	92	16%	-5%	2%	9%	15%	21%	31%	46%
02 INTEL	L	30	-10%	-46%	-43%	-20%	-12%	-3%	58%	62%
03 INTEL	L	78	17%	-33%	-18%	4%	17%	25%	44%	136%
04 INTEL	L	84	-1%	-29%	-16%	-7%	-3%	2%	31%	51%
005 INTEL	L	90	21%	-15%	5%	10%	15%	26%	46%	95%

					5th	25th		75th	95th	
ear Employe	er Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
006 INTEL		93	11%	-17%	-8%	5%	9%	16%	30%	54%
007 INTEL		96	19%	-12%	6%	11%	15%	23%	50%	72%
008 INTEL		103	3%	-21%	-15%	0%	4%	8%	14%	33%
009 INTEL		96	8%	-8%	0%	4%	9%	12%	19%	32%
010 INTEL		122	9%	-2%	2%	5%	8%	12%	22%	47%
002 INTEL		38	-17%	-55%	-51%	-31%	-18%	-6%	25%	29%
003 INTEL		72	27%	-24%	-18%	12%	18%	31%	137%	179%
004 INTEL		89	-4%	-38%	-24%	-10%	-5%	0%	12%	79%
005 INTEL		102	17%	-10%	2%	7%	12%	21%	51%	94%
006 INTEL		113	6%	-28%	-11%	-1%	4%	10%	34%	60%
007 INTEL		115	17%	-17%	-9%	13%	18%	22%	35%	67%
008 INTEL		107	6%	-17%	-12%	2%	7%	14%	19%	27%
009 INTEL		103	3%	-42%	-7%	-2%	3%	8%	14%	50%
010 INTEL		106	12%	-55%	5%	8%	11%	15%	25%	54%
001 INTEL		73	-4%	-19%	-11%	-8%	-5%	2%	6%	9%
02 INTEL		30	-6%	-13%	-13%	-10%	-8%	-2%	6%	8%
007 INTEL		25	18%	6%	10%	11%	17%	24%	28%	31%
01 INTEL		32	-6%	-23%	-15%	-11%	-9%	-5%	14%	16%
01 INTEL		40	-2%	-12%	-12%	-9%	-7%	4%	16%	25%
002 INTEL		34	-1%	-19%	-15%	-5%	-1%	3%	14%	14%
03 INTEL		29	12%	-3%	0%	6%	10%	16%	27%	43%
04 INTEL		27	-1%	-13%	-13%	-8%	0%	5%	8%	10%
01 INTEL		58	-8%	-28%	-21%	-15%	-12%	-2%	6%	52%
02 INTEL		49	-9%	-23%	-21%	-13%	-10%	-4%	3%	6%
3 INTEL		43	9%	-7%	-6%	4%	9%	15%	24%	25%
04 INTEL		38	-1%	-11%	-10%	-5%	-1%	3%	8%	10%
05 INTEL		39	7%	-8%	-6%	3%	5%	10%	22%	23%
06 INTEL		41	6%	-4%	-4%	1%	7%	11%	16%	17%
07 INTEL		33	12%	-6%	-1%	6%	14%	17%	22%	27%
01 INTEL		48	-12%	-52%	-29%	-16%	-13%	-10%	7%	11%
002 INTEL		44	-9%	-29%	-24%	-12%	-7%	-4%	2%	3%
03 INTEL		43	13%	-5%	-4%	8%	13%	17%	25%	27%
004 INTEL		42	-4%	-15%	-13%	-8%	-5%	0%	9%	10%

					5th	25th		75th	95th	
ear Empl	oloyer Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
005 INTEL	EL	41	7%	-5%	0%	4%	7%	10%	15%	18%
006 INTEL	EL	34	3%	-6%	-5%	-2%	2%	8%	17%	18%
007 INTEL	L	31	13%	4%	5%	9%	12%	18%	24%	31%
008 INTEL	EL	36	4%	-2%	-1%	0%	2%	10%	14%	15%
009 INTEL	EL	26	5%	-3%	-3%	2%	6%	9%	12%	15%
010 INTEL	EL	27	7%	-1%	2%	4%	5%	8%	15%	15%
001 INTEL	EL	40	-1%	-58%	-35%	-17%	-9%	-3%	86%	100%
001 INTEL	EL	360	1%	-20%	-11%	-7%	0%	7%	18%	68%
002 INTEL	EL	273	-2%	-27%	-18%	-8%	-3%	3%	14%	54%
003 INTEL	EL	203	16%	-15%	0%	10%	15%	20%	42%	58%
004 INTEL	EL	125	3%	-17%	-10%	-3%	1%	7%	26%	28%
005 INTEL	EL	165	14%	-3%	3%	8%	12%	20%	28%	36%
006 INTEL	EL	128	13%	-5%	-1%	6%	13%	21%	31%	35%
07 INTEL	EL	103	15%	-4%	1%	8%	15%	22%	27%	40%
08 INTEL	EL	84	3%	-8%	-4%	-1%	2%	6%	15%	22%
09 INTEL	EL	82	15%	4%	6%	10%	15%	20%	24%	33%
10 INTEL	EL	92	19%	-1%	3%	9%	20%	27%	35%	64%
01 INTEL	EL	784	0%	-27%	-13%	-9%	-4%	8%	27%	137%
02 INTEL	EL CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROL	667	-1%	-28%	-13%	-7%	-2%	3%	12%	34%
03 INTEL	EL CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROL	583	13%	-7%	1%	8%	12%	19%	27%	63%
004 INTEL	EL CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROL	494	3%	-21%	-8%	-3%	0%	7%	18%	43%
05 INTEL	EL CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROL	510	13%	-4%	1%	8%	12%	18%	27%	34%
06 INTEL	EL CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROL	407	12%	-6%	1%	6%	10%	17%	28%	46%
07 INTEL	EL CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROL	375	12%	-9%	2%	7%	10%	18%	26%	35%
08 INTEL	EL CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROL	349	2%	-11%	-5%	-2%	1%	5%	13%	26%
09 INTEL	EL CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROL	386	14%	-3%	4%	9%	13%	18%	27%	41%
10 INTEL	<u> </u>	379	14%	-2%	2%	6%	13%	21%	30%	50%
01 INTEL	EL CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROLLED CONTROL	845	-7%	-43%	-21%	-14%	-10%	0%	12%	68%
02 INTEL		774	-5%	-34%	-20%	-11%	-4%	0%	9%	63%
003 INTEL	L	753	11%	-23%	-4%	7%	10%	16%	24%	82%
004 INTEL	L	742	-3%	-22%	-11%	-6%	-4%	-1%	7%	51%
05 INTEL	EL CONTROLLED	741	10%	-23%	0%	5%	9%	14%	24%	43%
006 INTEL	EL TOTAL	602	9%	-12%	-3%	5%	8%	14%	22%	33%

					5th	25th		75th	95th	
r Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
7 INTEL		586	10%	-7%	1%	7%	9%	13%	22%	38%
8 INTEL		566	3%	-13%	-5%	-1%	3%	6%	15%	34%
9 INTEL		574	8%	-13%	-1%	4%	8%	12%	19%	36%
O INTEL		590	10%	-8%	0%	4%	8%	13%	29%	46%
1 INTEL		881	-6%	-53%	-23%	-14%	-10%	0%	20%	99%
2 INTEL		850	-8%	-45%	-33%	-14%	-7%	-2%	9%	86%
INTEL		804	12%	-24%	-5%	7%	11%	17%	26%	99%
INTEL		807	-3%	-34%	-13%	-6%	-4%	0%	8%	53%
INTEL		872	10%	-19%	-1%	5%	9%	14%	25%	61%
NTEL		800	7%	-14%	-4%	3%	7%	12%	18%	43%
NTEL		817	12%	-14%	4%	8%	11%	16%	24%	54%
ITEL		808	4%	-16%	-5%	-1%	3%	7%	14%	29%
NTEL		806	8%	-11%	-1%	4%	8%	11%	19%	40%
NTEL		874	9%	-4%	1%	4%	8%	13%	22%	40%
TEL		592	-8%	-55%	-27%	-16%	-12%	-3%	23%	79%
EL		580	-10%	-52%	-36%	-18%	-10%	-4%	9%	66%
_		549	14%	-36%	-7%	8%	13%	20%	32%	148%
		584	-4%	-43%	-16%	-10%	-5%	0%	9%	87%
		635	13%	-14%	-1%	7%	10%	16%	42%	79%
		582	4%	-16%	-9%	-1%	2%	8%	18%	66%
L		613	13%	-22%	3%	9%	12%	16%	28%	82%
EL		612	5%	-22%	-6%	1%	5%	9%	15%	35%
EL		590	6%	-10%	-3%	2%	5%	9%	19%	49%
EL		643	8%	-8%	0%	4%	7%	11%	19%	48%
TEL		219	-8%	-53%	-35%	-16%	-10%	-2%	16%	88%
TEL		<b>22</b> 3	-12%	-61%	-42%	-21%	-12%	-5%	14%	56%
TEL		222	18%	-48%	-17%	11%	17%	25%	39%	161%
TEL		<b>22</b> 5	-5%	-36%	-16%	-8%	-5%	-1%	9%	65%
ITEL		239	13%	-10%	-1%	6%	10%	16%	53%	77%
TEL		275	3%	-30%	-23%	-3%	2%	8%	26%	85%
ITEL		280	15%	-22%	5%	11%	14%	18%	28%	60%
TEL		306	7%	-26%	-8%	2%	8%	13%	22%	45%
INTEL		312	3%	-18%	-10%	-1%	2%	7%	16%	62%

					5th	25th		75th	95th	
r Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
.0 INTEL		356	13%	-1%	4%	8%	11%	15%	29%	56%
4 INTEL		25	5%	-14%	-6%	-1%	3%	10%	12%	37%
5 INTEL		<b>2</b> 9	11%	0%	1%	8%	11%	15%	20%	25%
INTEL		28	8%	-6%	-3%	1%	7%	13%	23%	26%
NTEL		28	14%	4%	5%	8%	11%	22%	26%	26%
TEL		27	1%	-9%	-8%	-2%	1%	3%	6%	18%
EL		28	12%	2%	2%	6%	11%	18%	25%	29%
EL		29	10%	-1%	3%	7%	8%	14%	21%	24%
		25	2%	-8%	-5%	0%	1%	7%	10%	15%
		<b>2</b> 9	12%	-2%	1%	7%	12%	16%	25%	27%
		28	4%	-2%	-1%	1%	3%	6%	10%	16%
		28	6%	-3%	-2%	3%	6%	9%	14%	21%
		29	7%	0%	0%	4%	5%	11%	18%	18%
		32	6%	-21%	-8%	-3%	3%	9%	39%	53%
ı		31	13%	-9%	8%	9%	11%	16%	23%	43%
		35	3%	-13%	-6%	-2%	1%	6%	17%	37%
		34	7%	-9%	-6%	1%	9%	12%	23%	23%
		43	9%	-2%	1%	4%	6%	11%	21%	22%
		34	-2%	-25%	-23%	-8%	-2%	1%	23%	36%
		44	17%	2%	6%	10%	14%	18%	53%	62%
		54	8%	-20%	-10%	4%	8%	15%	22%	36%
		58	2%	-10%	-10%	-4%	0%	7%	20%	25%
		68	15%	4%	5%	8%	11%	17%	43%	58%
		26	-3%	-16%	-15%	-11%	-5%	4%	15%	29%
		26	8%	-5%	-1%	3%	7%	10%	25%	27%
		50	-1%	-21%	-16%	-8%	1%	5%	12%	12%
		26	2%	-11%	-9%	-2%	1%	6%	15%	19%
		31	5%	-8%	-6%	-1%	4%	12%	22%	23%
		31	16%	1%	4%	8%	13%	23%	34%	36%
		93	-3%	-26%	-14%	-9%	-3%	0%	13%	16%
		87	11%	-4%	-1%	7%	10%	15%	22%	29%
		80	0%	-12%	-9%	-4%	-2%	4%	7%	29%
		88	8%	-5%	-1%	3%	6%	13%	20%	29%

					5th	25th		75th	95th	
Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
SINTEL		61	9%	-10%	-4%	2%	6%	15%	30%	35%
INTEL		98	17%	0%	3%	10%	16%	24%	35%	37%
INTEL		84	1%	-9%	-4%	-2%	1%	3%	8%	12%
NTEL		81	10%	-3%	3%	6%	9%	14%	22%	26%
ΓEL		68	10%	-2%	3%	5%	8%	18%	22%	27%
		95	-8%	-37%	-24%	-13%	-7%	-2%	7%	13%
		108	10%	-16%	-5%	6%	9%	14%	22%	30%
		109	-3%	-22%	-13%	-7%	-5%	1%	8%	13%
		136	8%	-6%	-1%	3%	7%	11%	19%	31%
		110	9%	-9%	-6%	1%	5%	15%	31%	34%
		178	15%	-5%	4%	10%	14%	19%	27%	35%
		162	4%	-15%	-2%	1%	4%	7%	14%	32%
		172	6%	-6%	-2%	2%	5%	9%	17%	32%
		162	6%	-5%	0%	4%	4%	7%	18%	32%
		74	-8%	-40%	-25%	-15%	-7%	1%	8%	14%
		83	12%	-8%	-3%	7%	11%	18%	28%	45%
		86	-4%	-20%	-11%	-7%	-5%	-1%	5%	34%
		94	7%	-6%	-2%	3%	6%	11%	16%	32%
		92	8%	-11%	-7%	-1%	6%	16%	23%	41%
		196	14%	-5%	4%	10%	14%	18%	25%	35%
		198	5%	-8%	-3%	1%	5%	9%	13%	24%
		219	5%	-8%	-3%	2%	5%	9%	18%	26%
		236	6%	-6%	-1%	4%	6%	8%	15%	21%
		51	13%	0%	1%	9%	14%	16%	21%	28%
		63	7%	-6%	-4%	1%	7%	10%	16%	21%
		60	5%	-6%	-5%	0%	3%	13%	20%	22%
		72	5%	-8%	-2%	4%	5%	7%	13%	16%
		59	0%	-17%	-12%	-9%	-2%	7%	16%	18%
		40	1%	-14%	-13%	-6%	1%	6%	22%	25%
		72	0%	-15%	-14%	-8%	-4%	5%	30%	54%
		86	-2%	-20%	-16%	-8%	-4%	3%	18%	21%
		41	15%	3%	4%	8%	14%	20%	31%	35%
		40	2%	-13%	-11%	-5%	1%	4%	33%	33%

					5th	25th		75th	95th	
Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
INTEL		34	15%	1%	3%	8%	14%	21%	29%	35%
INTEL		28	10%	-5%	1%	2%	8%	17%	26%	26%
INTEL		33	12%	3%	3%	7%	9%	17%	29%	29%
INTEL		45	3%	-7%	-4%	-1%	3%	6%	13%	24%
INTEL		51	12%	1%	3%	6%	12%	18%	23%	27%
INTEL		64	14%	3%	3%	5%	10%	22%	32%	37%
INTEL		98	-9%	-32%	-22%	-17%	-11%	-3%	12%	32%
INTEL		109	-7%	-33%	-25%	-13%	-6%	0%	8%	16%
NTEL		67	10%	-10%	-4%	5%	9%	13%	24%	32%
NTEL		59	-3%	-36%	-12%	-6%	-4%	0%	9%	28%
ITEL		49	10%	-4%	0%	6%	7%	13%	21%	41%
EL		51	7%	-11%	-2%	2%	8%	13%	19%	22%
EL		66	11%	-13%	0%	6%	9%	15%	23%	33%
L		60	3%	-9%	-4%	-1%	2%	7%	12%	24%
L		61	8%	-7%	-2%	3%	7%	11%	24%	28%
		67	7%	-4%	-1%	3%	5%	11%	20%	32%
		129	-13%	-40%	-27%	-22%	-14%	-7%	6%	36%
		124	-10%	-42%	-37%	-16%	-11%	-2%	6%	57%
		<b>7</b> 5	14%	-18%	-4%	7%	11%	17%	27%	96%
		95	-4%	-31%	-15%	-9%	-5%	-1%	8%	44%
		<b>7</b> 9	11%	-5%	-1%	6%	9%	16%	24%	43%
		72	5%	-11%	-3%	0%	4%	10%	23%	25%
		58	12%	-32%	0%	9%	11%	15%	26%	42%
		68	7%	-10%	-6%	2%	6%	9%	26%	28%
_		74	10%	-4%	-1%	4%	9%	16%	22%	37%
		<b>7</b> 5	10%	-3%	1%	4%	8%	13%	27%	39%
		92	-10%	-50%	-27%	-18%	-13%	-4%	14%	47%
		87	-11%	-47%	-41%	-17%	-11%	-4%	6%	38%
		61	14%	-18%	-2%	8%	13%	16%	36%	69%
		69	-5%	-38%	-16%	-10%	-6%	0%	8%	20%
		77	11%	-5%	-2%	6%	9%	15%	35%	49%
_		64	2%	-9%	-6%	-4%	-1%	4%	17%	33%
EL		70	17%	-17%	5%	11%	16%	20%	45%	79%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
008 INTEL		73	5%	-16%	-4%	1%	5%	9%	15%	20%
009 INTEL		70	6%	-9%	-5%	0%	6%	11%	17%	19%
010 INTEL		79	8%	-6%	0%	4%	6%	12%	19%	35%
001 INTEL		42	-8%	-28%	-25%	-17%	-14%	-2%	43%	44%
002 INTEL		45	-15%	-46%	-43%	-22%	-14%	-6%	8%	35%
003 INTEL		51	15%	-25%	-17%	11%	16%	19%	30%	147%
004 INTEL		50	-3%	-36%	-15%	-8%	-5%	-1%	13%	60%
005 INTEL		55	11%	-7%	-6%	3%	8%	13%	62%	71%
006 INTEL		51	4%	-17%	-10%	-5%	-1%	8%	28%	82%
007 INTEL		38	16%	3%	6%	10%	14%	21%	32%	50%
008 INTEL		47	6%	-25%	-13%	2%	7%	10%	20%	25%
009 INTEL		53	5%	-14%	-7%	-1%	4%	9%	28%	45%
010 INTEL		56	13%	-1%	3%	9%	12%	15%	28%	34%
001 INTEL		54	2%	-19%	-15%	-7%	1%	11%	20%	26%
02 INTEL		41	-1%	-25%	-19%	-6%	-3%	5%	23%	53%
3 INTEL		25	12%	-4%	-3%	2%	12%	20%	25%	27%
4 INTEL		29	0%	-21%	-15%	-8%	-1%	6%	20%	22%
05 INTEL		38	12%	-7%	-3%	5%	9%	20%	27%	29%
06 INTEL		36	10%	-5%	-4%	6%	10%	14%	17%	27%
07 INTEL		25	17%	-3%	7%	15%	19%	21%	23%	25%
01 INTEL		147	-2%	-25%	-15%	-10%	-7%	2%	30%	66%
02 INTEL		144	-3%	-23%	-17%	-7%	-2%	0%	14%	25%
O3 INTEL		100	11%	-9%	-3%	6%	9%	16%	24%	32%
04 INTEL		83	0%	-12%	-10%	-5%	0%	5%	13%	21%
05 INTEL		74	9%	-11%	-3%	2%	6%	16%	28%	32%
06 INTEL		91	7%	-12%	-6%	0%	4%	12%	23%	31%
07 INTEL		69	12%	-2%	3%	7%	11%	17%	23%	26%
08 INTEL		72	1%	-9%	-8%	-3%	1%	4%	10%	21%
09 INTEL		80	12%	-8%	1%	7%	10%	18%	27%	30%
010 INTEL		58	9%	-2%	1%	4%	5%	12%	26%	32%
001 INTEL		153	-9%	-31%	-18%	-15%	-12%	-5%	5%	39%
002 INTEL		149	-7%	-33%	-22%	-13%	-6%	-2%	5%	16%
003 INTEL		131	10%	-7%	-4%	6%	9%	15%	24%	31%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
004 INTEL		126	-4%	-15%	-13%	-7%	-5%	-1%	7%	39%
005 INTEL		136	7%	-7%	-5%	3%	7%	12%	19%	32%
006 INTEL		207	5%	-13%	-7%	0%	3%	10%	23%	32%
007 INTEL		168	9%	-6%	-1%	6%	8%	13%	21%	29%
008 INTEL		153	4%	-15%	-7%	-1%	4%	8%	13%	17%
009 INTEL		157	6%	-9%	-4%	1%	6%	11%	19%	26%
010 INTEL		149	6%	-5%	-3%	2%	4%	8%	16%	20%
001 INTEL		84	-12%	-50%	-25%	-15%	-12%	-10%	4%	7%
002 INTEL		90	-8%	-35%	-27%	-14%	-8%	-3%	10%	25%
003 INTEL		95	12%	-30%	-5%	7%	11%	18%	27%	36%
004 INTEL		95	-4%	-24%	-11%	-8%	-4%	-2%	6%	40%
005 INTEL		100	5%	-8%	-5%	3%	4%	7%	15%	26%
006 INTEL		167	3%	-13%	-5%	-2%	2%	6%	18%	38%
007 INTEL		170	10%	-4%	2%	7%	10%	13%	19%	24%
008 INTEL		171	5%	-8%	-3%	1%	5%	10%	14%	21%
09 INTEL		169	4%	-18%	-5%	1%	4%	8%	13%	19%
010 INTEL		184	6%	-5%	-1%	4%	5%	8%	14%	18%
01 INTEL		27	-14%	-52%	-42%	-18%	-12%	-9%	-1%	18%
004 INTEL		26	-5%	-30%	-12%	-6%	-5%	-2%	1%	11%
005 INTEL		29	8%	-2%	2%	5%	6%	12%	15%	16%
006 INTEL		57	0%	-18%	-8%	-4%	-2%	2%	10%	61%
007 INTEL		67	11%	-15%	-1%	8%	11%	15%	19%	48%
08 INTEL		65	7%	-17%	-6%	4%	7%	12%	18%	39%
09 INTEL		65	4%	-12%	-6%	0%	3%	7%	15%	29%
10 INTEL		66	6%	-5%	0%	4%	5%	9%	15%	18%
005 INTEL		26	17%	4%	6%	7%	14%	27%	33%	34%
007 INTEL		34	13%	0%	2%	7%	10%	20%	29%	39%
008 INTEL		36	2%	-12%	-11%	-2%	0%	4%	19%	23%
009 INTEL		42	13%	-1%	4%	8%	11%	18%	23%	29%
010 INTEL		39	14%	-2%	-2%	5%	12%	19%	41%	49%
005 INTEL		34	12%	-3%	0%	5%	11%	18%	26%	31%
06 INTEL		<b>2</b> 9	7%	-4%	-4%	2%	8%	13%	17%	23%
007 INTEL		37	8%	-4%	-1%	5%	7%	12%	21%	23%

				5th	25th		75th	95th	
ar Employer Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
08 INTEL	42	3%	-9%	-4%	0%	3%	6%	9%	12%
09 INTEL	41	7%	-2%	0%	3%	8%	12%	16%	17%
LO INTEL	49	9%	-4%	1%	4%	7%	11%	30%	36%
D5 INTEL	25	15%	1%	1%	7%	10%	21%	42%	44%
07 INTEL	32	15%	5%	5%	9%	13%	19%	30%	65%
08 INTEL	40	6%	-4%	-3%	1%	4%	7%	30%	34%
9 INTEL	39	9%	-4%	-2%	4%	8%	11%	22%	22%
O INTEL	44	7%	-13%	-2%	4%	6%	9%	21%	24%
B INTEL	26	9%	-13%	-13%	2%	7%	15%	31%	32%
9 INTEL	28	9%	-13%	-9%	3%	9%	12%	35%	37%
O INTEL	29	9%	-4%	-4%	5%	7%	12%	28%	30%
INTEL	57	3%	-25%	-15%	-5%	5%	9%	20%	21%
2 INTEL	39	1%	-20%	-17%	-4%	1%	5%	16%	20%
INTEL	149	3%	-15%	-12%	-8%	-2%	8%	29%	59%
INTEL	133	-1%	-22%	-15%	-6%	-2%	5%	20%	27%
INTEL	111	12%	-6%	0%	7%	9%	17%	25%	28%
INTEL	99	1%	-24%	-9%	-3%	-1%	6%	14%	27%
INTEL	90	10%	-3%	-1%	3%	8%	16%	24%	35%
INTEL	71	9%	-9%	-6%	2%	10%	17%	23%	25%
INTEL	45	15%	-3%	1%	9%	15%	22%	30%	32%
INTEL	37	2%	-10%	-7%	-1%	1%	5%	13%	21%
INTEL	38	15%	0%	1%	8%	14%	21%	27%	35%
INTEL	28	9%	1%	2%	4%	6%	10%	27%	27%
INTEL	207	-6%	-39%	-19%	-12%	-9%	-1%	11%	59%
INTEL	174	-5%	-30%	-22%	-11%	-4%	1%	9%	20%
INTEL	178	11%	-10%	-5%	6%	10%	16%	26%	77%
INTEL	182	-3%	-23%	-12%	-6%	-4%	0%	7%	31%
INTEL	204	10%	-14%	0%	5%	9%	14%	24%	32%
INTEL	165	4%	-10%	-5%	0%	2%	8%	15%	23%
INTEL	141	11%	-19%	3%	6%	10%	17%	25%	31%
INTEL	118	3%	-22%	-7%	-1%	3%	8%	14%	30%
INTEL	126	7%	-7%	-2%	3%	8%	11%	18%	27%
INTEL	108	9%	-4%	-2%	4%	6%	13%	20%	41%

ear	Employer	Job Title	Headcount	Average	Minimum	5th Percentile	25th Percentile	Median	75th Percentile	95th Percentile	Maximum
001	INTEL		181	-5%	-41%	-21%	-14%	-10%	0%	28%	61%
002	INTEL		206	-8%	-41%	-31%	-15%	-7%	-3%	10%	42%
003	INTEL		204	14%	-26%	-5%	8%	13%	19%	27%	113%
04	INTEL		206	-3%	-29%	-13%	-6%	-3%	1%	7%	47%
05	INTEL		227	10%	-7%	1%	6%	9%	13%	22%	59%
06	INTEL		219	3%	-12%	-7%	-2%	2%	7%	14%	63%
)7	INTEL		202	14%	-3%	3%	10%	13%	17%	23%	57%
8	INTEL		192	4%	-13%	-5%	0%	4%	7%	12%	26%
9	INTEL		175	7%	-6%	-2%	3%	6%	10%	16%	20%
0	INTEL		161	7%	-3%	1%	4%	5%	9%	17%	29%
1	INTEL		102	-7%	-41%	-27%	-15%	-12%	-3%	33%	57%
2	INTEL		121	-12%	-48%	-38%	-22%	-10%	-4%	9%	47%
3	INTEL		128	12%	-28%	-4%	8%	12%	18%	32%	41%
ļ	INTEL		140	-5%	-40%	-20%	-8%	-5%	1%	10%	15%
	INTEL		126	10%	-25%	-6%	6%	9%	13%	24%	75%
	INTEL		125	0%	-13%	-9%	-3%	-2%	3%	11%	32%
	INTEL		125	15%	-17%	7%	10%	13%	17%	27%	76%
3	INTEL		131	6%	-18%	-8%	1%	6%	11%	19%	30%
	INTEL		141	5%	-32%	-6%	1%	5%	9%	19%	24%
)	INTEL		136	7%	-4%	1%	4%	5%	9%	18%	25%
	INTEL		31	-12%	-39%	-39%	-21%	-12%	-7%	10%	40%
	INTEL		37	11%	-17%	-16%	4%	15%	19%	28%	35%
ļ	INTEL		42	-7%	-32%	-27%	-9%	-6%	-2%	0%	16%
	INTEL		46	16%	0%	1%	8%	10%	19%	57%	67%
6	INTEL		47	-2%	-39%	-22%	-7%	-3%	4%	13%	41%
	INTEL		43	18%	2%	4%	12%	14%	20%	62%	65%
	INTEL		45	5%	-30%	-17%	2%	7%	11%	19%	30%
)	INTEL		40	2%	-16%	-9%	-1%	2%	6%	16%	22%
)	INTEL		42	9%	-44%	1%	8%	9%	13%	19%	24%
L	INTEL		29	-2%	-15%	-14%	-12%	-10%	-3%	44%	51%
<u>.</u>	INTEL		36	-14%	-42%	-38%	-19%	-15%	-6%	-1%	5%
3	INTEL		50	14%	-6%	-5%	8%	13%	18%	30%	67%
	INTEL		54	-5%	-41%	-24%	-10%	-5%	1%	10%	12%

				5th	25th		75th	95th	
ear Employer Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
005 INTEL	53	9%	-1%	0%	6%	9%	12%	20%	22%
006 INTEL	38	4%	-17%	-13%	-2%	3%	11%	19%	25%
007 INTEL	32	16%	-9%	-1%	11%	13%	18%	37%	76%
008 INTEL	32	6%	-5%	-3%	1%	5%	9%	17%	18%
009 INTEL	27	4%	-6%	-6%	0%	4%	9%	13%	19%
010 INTEL	31	6%	-2%	0%	4%	5%	7%	20%	22%
01 INTEL	32	1%	-25%	-18%	-13%	-7%	3%	51%	61%
02 INTEL	35	-9%	-44%	-42%	-22%	-7%	-2%	40%	43%
03 INTEL	33	6%	-43%	-32%	-6%	12%	17%	31%	31%
04 INTEL	34	-5%	-17%	-15%	-12%	-6%	-4%	14%	14%
05 INTEL	35	18%	2%	9%	11%	15%	19%	54%	68%
06 INTEL	28	2%	-27%	-27%	-7%	-2%	4%	32%	89%
08 INTEL	28	7%	-12%	-9%	2%	8%	12%	22%	26%
09 INTEL	27	0%	-13%	-7%	-2%	-1%	3%	13%	14%
LO INTEL	25	10%	3%	4%	7%	9%	12%	15%	35%
D1 INTEL	26	-8%	-22%	-21%	-13%	-7%	-2%	4%	5%
LO INTEL	30	6%	-5%	0%	4%	5%	9%	14%	20%
1 INTEL	30	2%	-12%	-12%	-8%	-2%	12%	18%	18%
01 INTEL	52	0%	-15%	-13%	-9%	-6%	11%	33%	50%
D2 INTEL	36	-2%	-19%	-10%	-6%	-2%	1%	12%	14%
O3 INTEL	26	13%	-1%	-1%	7%	11%	20%	27%	29%
1 INTEL	47	-13%	-24%	-23%	-19%	-15%	-11%	19%	23%
2 INTEL	44	-9%	-29%	-29%	-13%	-10%	-3%	6%	7%
3 INTEL	44	8%	-13%	-12%	2%	9%	12%	27%	28%
4 INTEL	43	-3%	-28%	-24%	-11%	-5%	-1%	30%	44%
5 INTEL	44	7%	-11%	-9%	3%	5%	9%	35%	36%
6 INTEL	39	4%	-10%	-7%	0%	1%	10%	20%	21%
7 INTEL	31	11%	-1%	4%	7%	10%	15%	23%	29%
98 INTEL	26	4%	-4%	-4%	1%	4%	7%	13%	19%
01 INTEL	46	-12%	-31%	-24%	-19%	-13%	-10%	11%	18%
22 INTEL	41	-8%	-26%	-26%	-15%	-6%	-2%	7%	9%
O3 INTEL	31	8%	-9%	-6%	0%	9%	13%	22%	31%
04 INTEL	26	-3%	-15%	-12%	-7%	-4%	0%	8%	14%

					5th	25th		75th	95th	
ar Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
05 INTEL		38	7%	-1%	-1%	4%	5%	10%	15%	19%
06 INTEL		28	2%	-14%	-9%	-3%	0%	7%	14%	23%
07 INTEL		30	11%	3%	5%	7%	10%	14%	22%	26%
08 INTEL		26	11%	-1%	0%	7%	10%	16%	22%	22%
01 INTEL		48	4%	-18%	-11%	-8%	2%	11%	43%	55%
2 INTEL		26	4%	-23%	-13%	-2%	2%	10%	33%	34%
3 INTEL		37	20%	-3%	-1%	9%	17%	28%	53%	64%
4 INTEL		38	-2%	-15%	-15%	-7%	-2%	2%	13%	26%
1 INTEL		101	1%	-20%	-14%	-10%	-4%	10%	31%	81%
2 INTEL		57	-1%	-23%	-19%	-8%	-2%	5%	14%	21%
INTEL		66	13%	-13%	-2%	8%	11%	18%	31%	68%
INTEL		77	-1%	-17%	-15%	-7%	-3%	2%	16%	38%
INTEL		54	8%	-4%	-3%	3%	7%	13%	24%	26%
5 INTEL		34	5%	-6%	-5%	0%	2%	9%	18%	38%
INTEL		28	12%	1%	2%	7%	11%	16%	25%	27%
INTEL		118	-8%	-22%	-20%	-15%	-11%	-3%	8%	32%
INTEL		104	-6%	-35%	-24%	-12%	-5%	1%	14%	20%
INTEL		106	13%	-13%	1%	7%	10%	18%	30%	88%
INTEL		99	-3%	-26%	-13%	-8%	-4%	-1%	7%	40%
INTEL		53	8%	-7%	-1%	3%	8%	12%	20%	29%
INTEL		36	3%	-13%	-10%	-1%	1%	5%	16%	20%
INTEL		29	9%	2%	2%	4%	8%	12%	19%	22%
INTEL		26	6%	-4%	-3%	3%	4%	8%	19%	24%
INTEL		95	-8%	-39%	-24%	-15%	-11%	-4%	12%	86%
INTEL		85	-8%	-36%	-23%	-15%	-7%	-3%	10%	42%
INTEL		87	10%	-18%	-6%	7%	11%	16%	24%	27%
INTEL		112	-3%	-36%	-15%	-7%	-4%	0%	10%	45%
INTEL		45	10%	-10%	-6%	4%	10%	12%	33%	42%
INTEL		32	6%	-8%	-7%	1%	5%	8%	19%	59%
1 INTEL		37	-10%	-41%	-39%	-15%	-12%	-2%	10%	18%
2 INTEL		37	-9%	-30%	-30%	-18%	-9%	-3%	4%	54%
INTEL		45	16%	-25%	-12%	7%	13%	20%	92%	97%
INTEL		45	-5%	-30%	-20%	-10%	-4%	-1%	11%	24%

ır Employer	Job Title	Headcount	Average	Minimum	5th Percentile	25th Percentile	Median	75th Percentile	95th Percentile	Maximum
5 INTEL	Job Hille	25	8%	-6%	-1%	3%	6%	13%	23%	27%
77 INTEL		26	11%	-1%	0%	6%	10%	18%	21%	24%
08 INTEL		29	5%	-4%	-1%	0%	4%	6%	23%	26%
) INTEL		27	12%	1%	5%	6%	10%	18%	25%	26%
) INTEL		28	13%	-3%	2%	4%	8%	23%	32%	34%
INTEL		32	8%	0%	1%	3%	5%	11%	16%	34%
INTEL		37	6%	-12%	-5%	1%	4%	9%	19%	20%
NTEL		39	9%	-2%	-1%	6%	8%	13%	17%	28%
NTEL		34	3%	-11%	-8%	-1%	4%	7%	12%	13%
NTEL		32	6%	-6%	-5%	2%	7%	10%	14%	15%
NTEL		36	9%	-5%	1%	4%	7%	12%	25%	35%
NTEL		43	8%	-5%	-5%	2%	6%	12%	33%	33%
ITEL		52	5%	-7%	-4%	1%	6%	9%	15%	21%
TEL		79	12%	2%	4%	9%	10%	14%	23%	42%
L		93	6%	-6%	-4%	1%	5%	9%	22%	34%
		95	10%	-3%	-1%	5%	8%	13%	22%	31%
		103	8%	-3%	0%	4%	6%	11%	19%	38%
		28	4%	-15%	-12%	-2%	2%	9%	21%	46%
		34	14%	-15%	2%	10%	13%	15%	27%	63%
		42	6%	-6%	-3%	1%	4%	10%	17%	31%
		43	6%	-7%	-4%	3%	4%	10%	17%	20%
L L		51	7%	-3%	1%	4%	6%	11%	15%	20%
		28	10%	-2%	0%	8%	9%	12%	19%	25%
		43	0%	-16%	-15%	-11%	-3%	8%	29%	39%
		26	-7%	-18%	-18%	-12%	-7%	-3%	4%	9%
		26	-2%	-16%	-15%	-10%	-6%	1%	27%	36%
		39	12%	0%	1%	4%	10%	19%	28%	34%
		41	7%	-12%	-8%	0%	7%	14%	21%	24%
		30	12%	1%	1%	7%	10%	17%	26%	30%
_		26	-1%	-10%	-7%	-4%	-1%	0%	8%	10%
		30	-4%	-16%	-15%	-7%	-4%	-1%	5%	11%
_		51	8%	0%	0%	4%	8%	12%	17%	20%
L		47	5%	-5%	-1%	1%	6%	9%	14%	19%

r Emplo	oyer Job Title	Headcount	Average	Minimum	5th Percentile	25th Percentile	Median	75th Percentile	95th Percentile	Maximum
7 INTEL	·	44	9%	-6%	-4%	6%	8%	14%	23%	25%
8 INTEL		29	5%	-6%	-4%	1%	4%	9%	15%	29%
9 INTEL		32	5%	-2%	-2%	1%	4%	8%	14%	23%
0 INTEL		29	5%	-2%	0%	4%	4%	8%	15%	17%
INTEL		42	-2%	-32%	-28%	-10%	-2%	0%	47%	47%
NTEL		55	13%	2%	3%	7%	11%	17%	31%	57%
L		69	6%	-10%	-5%	1%	5%	10%	15%	34%
		65	12%	3%	5%	9%	12%	14%	21%	25%
		59	5%	-3%	-3%	1%	5%	8%	14%	17%
		62	7%	-7%	-2%	3%	5%	11%	18%	28%
		49	10%	-4%	-2%	4%	7%	12%	32%	39%
	_	32	20%	5%	5%	12%	16%	22%	53%	92%
		37	1%	-13%	-12%	-3%	2%	6%	11%	13%
		35	14%	0%	2%	9%	12%	19%	27%	47%
		39	5%	-21%	-4%	2%	6%	9%	14%	18%
		38	5%	-7%	-3%	1%	3%	7%	19%	24%
		39	6%	-6%	-4%	3%	7%	9%	13%	16%
Γ		31	6%	-14%	-11%	-6%	2%	10%	39%	63%
Г		47	18%	-7%	-1%	11%	15%	23%	41%	56%
Г		49	3%	-19%	-13%	-4%	3%	8%	17%	32%
Г		58	9%	-30%	-21%	-1%	9%	12%	39%	83%
Г		71	-2%	-23%	-17%	-9%	-4%	4%	20%	56%
Г		71	19%	-25%	-8%	7%	17%	34%	43%	61%
Т		72	0%	-28%	-24%	-8%	0%	6%	26%	39%
Г		28	4%	-14%	-12%	-4%	1%	14%	21%	22%
Γ		30	9%	-3%	-3%	4%	7%	13%	25%	33%
Г		34	2%	-7%	-7%	-3%	0%	3%	19%	25%
Г		31	13%	-6%	-5%	6%	11%	20%	30%	38%
Г		32	3%	-14%	-9%	-1%	1%	8%	22%	26%
Г		26	31%	-40%	-24%	3%	30%	49%	80%	160%
Г		26	7%	-51%	-51%	-17%	4%	21%	130%	130%
Г		27	3%	-29%	-26%	-13%	-7%	4%	71%	85%
Г		30	20%	-32%	-30%	8%	19%	31%	90%	139%

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
006 INTUIT		34	13%	-14%	-10%	4%	10%	23%	39%	44%
005 INTUIT		28	22%	-3%	-3%	10%	21%	30%	75%	75%
06 INTUIT		26	13%	-23%	-23%	4%	8%	21%	62%	62%
7 INTUIT		31	17%	-16%	-13%	3%	15%	27%	38%	70%
8 INTUIT		31	-1%	-17%	-15%	-11%	-7%	4%	36%	55%
9 INTUIT		34	23%	-20%	-7%	1%	24%	39%	52%	68%
INTUIT		32	18%	-19%	-19%	-4%	11%	39%	57%	121%
INTUIT		42	9%	-13%	-11%	-1%	7%	13%	46%	77%
INTUIT		38	-4%	-21%	-21%	-12%	-6%	4%	13%	19%
INTUIT		47	11%	-14%	-9%	2%	8%	18%	44%	56%
INTUIT		46	9%	-15%	-12%	-1%	3%	17%	33%	51%
INTUIT		53	11%	-14%	-13%	4%	12%	23%	30%	30%
INTUIT		27	10%	-27%	-9%	1%	9%	18%	43%	44%
INTUIT		26	11%	-17%	-11%	3%	8%	23%	34%	50%
INTUIT		47	-32%	-67%	-57%	-44%	-36%	-27%	-13%	157%
NTUIT		27	21%	-11%	-5%	16%	24%	31%	35%	54%
TUT		38	8%	-23%	-15%	-8%	5%	14%	44%	56%
NTUIT		40	-3%	-22%	-18%	-11%	-3%	4%	12%	24%
NTUIT		25	20%	-7%	-7%	14%	19%	27%	45%	45%
NTUIT		39	-29%	-57%	-49%	-41%	-35%	-25%	17%	77%
NTUIT		45	12%	-32%	-24%	1%	16%	28%	37%	40%
INTUIT		44	13%	-26%	-16%	1%	12%	24%	38%	45%
INTUIT		31	4%	-16%	-16%	-3%	2%	7%	30%	30%
INTUIT		30	21%	0%	0%	11%	20%	27%	40%	40%
NTUIT		37	11%	-11%	-10%	5%	12%	19%	30%	32%
NTUIT		57	17%	-7%	-2%	4%	16%	25%	44%	65%
NTUIT		56	1%	-19%	-15%	-6%	0%	6%	18%	28%
INTUIT		52	17%	-13%	-7%	7%	16%	27%	49%	63%
INTUIT		54	6%	-16%	-11%	-4%	3%	11%	32%	70%
INTUIT		187	8%	-24%	-9%	1%	6%	13%	31%	60%
INTUIT		184	10%	-18%	-7%	3%	8%	17%	29%	45%
INTUIT		173	16%	-14%	-3%	8%	13%	23%	37%	67%
S INTUIT		152	7%	-12%	-8%	-3%	6%	15%	26%	48%

					5th	25th		75th	95th	
Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximun
INTUIT		198	17%	-13%	-3%	6%	13%	27%	47%	111%
INTUIT		170	6%	-24%	-10%	-1%	5%	14%	26%	44%
INTUIT		100	-22%	-59%	-51%	-39%	-26%	-6%	17%	56%
INTUIT		140	8%	-44%	-24%	-3%	6%	21%	35%	47%
INTUIT		38	5%	-14%	-14%	-3%	5%	16%	23%	23%
NTUIT		172	17%	-25%	-6%	5%	13%	25%	54%	65%
ITUIT		162	5%	-26%	-13%	-6%	2%	15%	35%	50%
UIT		122	-31%	-62%	-55%	-45%	-36%	-24%	7%	127%
•		170	8%	-49%	-26%	0%	6%	21%	40%	51%
		49	7%	-26%	-13%	-5%	6%	13%	42%	46%
		91	-35%	-65%	-57%	-46%	-37%	-27%	6%	15%
		116	14%	-42%	-25%	-1%	11%	30%	55%	130%
		32	2%	-18%	-16%	-10%	-1%	10%	30%	40%
		61	7%	-19%	-8%	0%	5%	16%	32%	38%
		66	4%	-10%	-8%	0%	3%	7%	18%	27%
		68	14%	-4%	-2%	9%	14%	17%	37%	42%
		74	10%	-14%	-7%	1%	8%	20%	35%	39%
		54	11%	-16%	-8%	0%	9%	18%	36%	43%
		54	9%	-11%	-10%	2%	7%	19%	32%	32%
		36	-19%	-56%	-52%	-38%	-27%	-9%	13%	1049
		51	5%	-25%	-24%	-10%	0%	17%	45%	59%
		29	4%	-11%	-6%	-4%	1%	10%	25%	25%
		38	18%	-36%	-28%	3%	15%	33%	84%	1129
		44	6%	-39%	-25%	-4%	4%	15%	55%	67%
		38	1%	-23%	-20%	-6%	0%	10%	23%	30%
		36	17%	-9%	-1%	7%	18%	25%	44%	44%
		33	10%	-31%	-26%	-12%	14%	24%	41%	70%
		42	17%	-8%	-6%	0%	10%	23%	67%	1429
		48	8%	-11%	-8%	-3%	4%	16%	35%	47%
		53	16%	-10%	-3%	11%	17%	21%	35%	36%
		52	15%	-6%	-4%	6%	13%	24%	37%	47%
		59	15%	-20%	-13%	3%	14%	22%	58%	65%
-		68	0%	-23%	-15%	-8%	-3%	5%	21%	47%

## **Appendix B**

# Distribution of Yearly Change in Total Compensation (Job Titles in Leamer Supplemental Report Regressions)

					5th	25th		75th	95th	
ear Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
009 INTUIT		67	23%	-16%	-6%	7%	21%	36%	51%	89%
010 INTUIT		71	5%	-24%	-19%	-7%	-2%	17%	41%	70%
2008 INTUIT		30	2%	-12%	-12%	-6%	-2%	4%	24%	40%
.003 INTUIT		186	9%	-22%	-15%	0%	6%	17%	38%	74%
004 INTUIT		272	2%	-23%	-13%	-5%	1%	6%	20%	40%
.005 INTUIT		307	14%	-11%	0%	7%	12%	19%	34%	53%
006 INTUIT		384	10%	-23%	-8%	2%	9%	17%	31%	46%
007 INTUIT		444	12%	-23%	-7%	2%	9%	19%	45%	80%
008 INTUIT		449	0%	-27%	-12%	-6%	-2%	4%	15%	70%
009 INTUIT		294	13%	-13%	-6%	5%	11%	20%	39%	85%
010 INTUIT		293	2%	-35%	-17%	-8%	-1%	8%	35%	66%
04 INTUIT		37	3%	-17%	-14%	-2%	3%	9%	22%	26%
005 INTUIT		65	14%	-10%	0%	6%	13%	20%	32%	44%
06 INTUIT		83	8%	-28%	-13%	2%	7%	16%	35%	49%
07 INTUIT		101	11%	-18%	-7%	2%	10%	20%	37%	46%
NTUIT		97	-1%	-18%	-13%	-6%	-3%	1%	14%	31%
06 INTUIT		34	12%	-8%	-1%	6%	10%	17%	34%	35%
O7 INTUIT		55	6%	-13%	-6%	-1%	4%	11%	22%	28%
08 INTUIT		71	3%	-10%	-8%	-2%	1%	6%	20%	28%
9 INTUIT		59	16%	-7%	-4%	9%	11%	21%	48%	68%
10 INTUIT		57	1%	-59%	-10%	-2%	0%	4%	26%	35%
04 INTUIT		39	3%	-11%	-10%	-3%	3%	9%	17%	25%
5 INTUIT		39	11%	-8%	0%	6%	9%	16%	25%	33%
06 INTUIT		39	9%	-5%	-2%	4%	7%	14%	25%	26%
O7 INTUIT		41	2%	-12%	-12%	-1%	1%	6%	12%	15%
08 INTUIT		34	1%	-8%	-8%	-5%	1%	7%	11%	11%
03 INTUIT		89	6%	-33%	-20%	0%	4%	13%	36%	48%
04 INTUIT		104	2%	-18%	-15%	-6%	-1%	7%	32%	47%
05 INTUIT		134	15%	-23%	-4%	7%	14%	22%	36%	83%
06 INTUIT		164	8%	-51%	-10%	2%	7%	17%	28%	59%
007 INTUIT		189	12%	-27%	-11%	1%	10%	20%	44%	98%
008 INTUIT		222	-2%	-23%	-17%	-8%	-3%	2%	14%	25%
009 INTUIT		<b>21</b> 3	15%	-18%	-8%	5%	13%	24%	44%	129%

## **Appendix B**

# Distribution of Yearly Change in Total Compensation (Job Titles in Leamer Supplemental Report Regressions)

					5th	25th		75th	95th	
Year Employer	Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2010 INTUIT		222	1%	-31%	-19%	-10%	-1%	7%	28%	53%
2008 INTUIT		27	1%	-15%	-13%	-6%	1%	3%	6%	68%
2009 INTUIT		25	15%	-15%	-9%	0%	15%	31%	36%	55%
2010 INTUIT		30	3%	-31%	-21%	-5%	1%	9%	23%	102%
2007 INTUIT		41	3%	-21%	-17%	-8%	1%	13%	30%	33%
2008 INTUIT		43	1%	-13%	-11%	-5%	-1%	5%	21%	31%
2009 INTUIT		38	23%	-8%	6%	11%	17%	29%	54%	63%
2010 INTUIT		37	-2%	-29%	-19%	-6%	-2%	2%	21%	37%
2006 INTUIT		36	11%	-2%	-1%	6%	10%	16%	26%	27%
2007 INTUIT		25	10%	-8%	0%	4%	9%	15%	22%	36%
2008 INTUIT		28	4%	-9%	-6%	-1%	2%	6%	19%	35%
2009 INTUIT		27	10%	-5%	-2%	5%	8%	13%	32%	33%
2010 INTUIT		25	5%	-4%	-4%	2%	4%	9%	14%	17%
2001 INTUIT		41	-22%	-51%	-50%	-39%	-22%	-5%	14%	17%
2002 INTUIT		40	12%	-9%	-4%	3%	6%	18%	41%	59%
2003 INTUIT		46	3%	-12%	-12%	-5%	4%	8%	14%	14%
2001 INTUIT		32	-30%	-45%	-44%	-39%	-35%	-31%	6%	14%
2002 INTUIT		29	9%	-30%	-13%	1%	9%	21%	29%	37%
2003 INTUIT		27	7%	-18%	-18%	0%	8%	17%	20%	20%
2002 INTUIT		36	15%	-22%	-12%	0%	4%	31%	65%	75%
2003 INTUIT		32	15%	1%	1%	3%	17%	23%	31%	31%
2002 INTUIT		27	8%	-16%	-10%	0%	12%	15%	21%	22%
2003 INTUIT		25	5%	-14%	-14%	2%	7%	10%	18%	18%
2001 PIXAR	ANIMATOR	47	12%	-1%	1%	8%	11%	15%	19%	41%
2002 PIXAR	ANIMATOR	54	24%	-66%	-62%	12%	14%	15%	22%	595%
2003 PIXAR	ANIMATOR	60	-15%	-85%	-82%	-18%	-15%	-11%	1%	200%
2004 PIXAR	ANIMATOR	60	22%	-77%	-72%	15%	36%	57%	82%	96%
2005 PIXAR	ANIMATOR	61	26%	-64%	-14%	10%	20%	36%	120%	132%
2006 PIXAR	ANIMATOR	84	4%	-25%	-18%	-9%	0%	13%	51%	84%
2007 PIXAR	ANIMATOR	68	3%	-15%	-12%	-7%	-2%	7%	33%	67%
2008 PIXAR	ANIMATOR	87	-7%	-26%	-24%	-12%	-5%	-1%	5%	18%
2009 PIXAR	ANIMATOR	85	11%	-4%	3%	7%	10%	14%	23%	28%
2010 PIXAR	ANIMATOR	85	12%	-8%	3%	7%	11%	16%	27%	37%

**Appendix B** 

## Distribution of Yearly Change in Total Compensation (Job Titles in Leamer Supplemental Report Regressions)

			_		5th	25th		75th	95th	
Year Employ	yer Job Title	Headcount	Average	Minimum	Percentile	Percentile	Median	Percentile	Percentile	Maximum
2006 PIXAR	ARTIST_STORY	25	-1%	-19%	-17%	-14%	-10%	11%	18%	45%
2007 PIXAR	ARTIST_STORY	30	3%	-16%	-12%	-6%	-4%	1%	24%	121%
2008 PIXAR	ARTIST_STORY	28	-3%	-20%	-17%	-13%	-10%	-1%	30%	41%
2009 PIXAR	ARTIST_STORY	31	14%	6%	6%	10%	11%	15%	32%	44%
2010 PIXAR	ARTIST_STORY	25	11%	-1%	0%	7%	9%	16%	23%	27%
2001 PIXAR	ENGINEER_SOFTWARE	40	1%	-55%	-53%	-37%	12%	15%	21%	133%
2002 PIXAR	ENGINEER_SOFTWARE	53	14%	-62%	-59%	-43%	14%	15%	23%	563%
2003 PIXAR	ENGINEER_SOFTWARE	60	-24%	-86%	-80%	-17%	-15%	-11%	-3%	3%
2004 PIXAR	ENGINEER_SOFTWARE	41	43%	-63%	13%	19%	40%	62%	94%	146%
2005 PIXAR	ENGINEER_SOFTWARE	30	30%	0%	1%	8%	24%	37%	96%	113%
2006 PIXAR	ENGINEER_SOFTWARE	37	5%	-23%	-17%	-15%	-5%	15%	65%	96%
2007 PIXAR	ENGINEER_SOFTWARE	38	-4%	-22%	-18%	-10%	-7%	-2%	27%	38%
2008 PIXAR	ENGINEER_SOFTWARE	41	-9%	-24%	-22%	-15%	-12%	-5%	6%	29%
2009 PIXAR	ENGINEER_SOFTWARE	45	11%	-11%	2%	9%	11%	12%	25%	30%
2010 PIXAR	ENGINEER_SOFTWARE	61	10%	0%	1%	5%	9%	11%	25%	42%
2001 PIXAR	TECHNICAL_DIRECTOR	120	0%	-61%	-56%	-24%	10%	15%	27%	199%
2002 PIXAR	TECHNICAL_DIRECTOR	125	7%	-71%	-64%	11%	14%	16%	22%	272%
2003 PIXAR	TECHNICAL_DIRECTOR	122	-18%	-81%	-76%	-17%	-15%	-13%	-1%	205%
2004 PIXAR	TECHNICAL_DIRECTOR	146	41%	-80%	-69%	17%	56%	73%	106%	167%
2005 PIXAR	TECHNICAL_DIRECTOR	163	23%	-71%	-57%	6%	24%	39%	84%	147%
2006 PIXAR	TECHNICAL_DIRECTOR	163	4%	-28%	-20%	-13%	0%	14%	47%	112%
2007 PIXAR	TECHNICAL_DIRECTOR	155	1%	-53%	-16%	-8%	-4%	5%	37%	121%
2008 PIXAR	TECHNICAL_DIRECTOR	170	-9%	-30%	-22%	-16%	-11%	-6%	19%	53%
2009 PIXAR	TECHNICAL_DIRECTOR	190	15%	-14%	1%	10%	14%	20%	32%	53%
2010 PIXAR	TECHNICAL_DIRECTOR	256	12%	-12%	0%	5%	10%	16%	31%	71%
2008 PIXAR	TECHNICAL_DIRECTOR_LEAD	28	-19%	-37%	-34%	-23%	-18%	-13%	-11%	7%
2009 PIXAR	TECHNICAL_DIRECTOR_LEAD	33	13%	0%	2%	8%	11%	19%	28%	41%

Notes: Job titles shown include those with at least 25 employees in a given year. Source: Dr. Leamer's backup data. Leamer Supplemental Report Exhibits 1 and 2.

### **Appendix C**

#### Curriculum Vitae

### Kevin M. Murphy

June 2013

Business Address: Home Address:

University of Chicago Booth School of Business 5807 South Woodlawn Avenue Chicago, Illinois 60637

email: kevin.murphy@chicagobooth.edu

1810 Pennington Court New Lenox, Illinois 60451 Phone: (815)463-4756 Fax: (815)463-4758

#### **Current Positions**

July 2005-Present: George J. Stigler Distinguished Service Professor of Economics, Department of Economics and Booth School of Business, University of Chicago

Faculty Research Associate, National Bureau of Economic Research

#### Education

University of California, Los Angeles, A.B., Economics, 1981

University of Chicago, Ph.D., 1986

Thesis Topic: Specialization and Human Capital

#### **Previous Research and Academic Positions**

2002-2005: George J. Stigler Professor of Economics, Department of Economics and Booth School of Business, University of Chicago

1993 – 2002: George Pratt Shultz Professor of Business Economics and Industrial Relations, University of Chicago

1989 – 1993: Professor of Business Economics and Industrial Relations, University of Chicago

1988 – 1989: Associate Professor of Business Economics and Industrial Relations, University of Chicago

1986 – 1988: Assistant Professor of Business Economics and Industrial Relations, University of Chicago

1983 – 1986: Lecturer, Booth School of Business, University of Chicago

1982 – 1983: Teaching Associate, Department of Economics, University of Chicago

1979 – 1981: Research Assistant, Unicon Research Corporation, Santa Monica, California

#### **Honors and Awards**

2008: John von Neumann Lecture Award, Rajk College, Corvinus University, Budapest

2007: Kenneth J. Arrow Award (with Robert H. Topel)

October 2005: Garfield Research Prize (with Robert H. Topel)

September 2005: MacArthur Foundation Fellow

1998: Elected to the American Academy of Arts & Sciences

1997: John Bates Clark Medalist

1993: Fellow of The Econometric Society

1989 – 1991: Sloan Foundation Fellowship, University of Chicago

1983 – 1984: Earhart Foundation Fellowship, University of Chicago

1981 – 1983: Fellowship, Friedman Fund, University of Chicago

1980 – 1981: Phi Beta Kappa, University of California, Los Angeles

1980 – 1981: Earhart Foundation Fellowship, University of California, Los Angeles

1979 – 1981: Department Scholar, Department of Economics, University of California, Los Angeles

#### **Publications**

#### **Books**

<u>Social Economics: Market Behavior in a Social Environment</u> with Gary S. Becker, Cambridge, MA: Harvard University Press (2000).

Measuring the Gains from Medical Research: An Economic Approach edited volume with Robert H. Topel, Chicago: University of Chicago Press (2003).

#### **Articles**

- "Government Regulation of Cigarette Health Information," with Benjamin Klein and Lynne Schneider, 24 *Journal of Law and Economics* 575 (1981).
- "Estimation and Inference in Two-Step Econometric Models," with Robert H. Topel, 3 *Journal of Business and Economic Statistics* 370 (1985).
- "Unemployment, Risk, and Earnings: Testing for Equalizing Wage Differences in the Labor Market," with Robert H. Topel, in <u>Unemployment and the Structure of Labor Markets</u>, pp. 103-139, ed. Kevin Lang and Jonathan S. Leonard. London: Basil Blackwell (1987).
- "The Evolution of Unemployment in the United States: 1968-1985," with Robert H. Topel, in <u>NBER Macroeconomics Annual</u>, pp. 11-58, ed. Stanley Fischer. Cambridge, MA: MIT Press (1987).
- "Cohort Size and Earnings in the United States," with Mark Plant and Finis Welch, in Economics of Changing Age Distributions in Developed Countries, pp. 39-58, ed. Ronald D. Lee, W. Brian Arthur, and Gerry Rodgers. Oxford: Clarendon Press, (1988).
- "The Family and the State," with Gary S. Becker, 31 Journal of Law and Economics 1 (1988).
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- "Vertical Restraints and Contract Enforcement," with Benjamin Klein, 31 *Journal of Law and Economics* 265 (1988).
- "Income Distribution, Market Size, and Industrialization," with Andrei Shleifer and Robert W. Vishny, 104 *Quarterly Journal of Economics* 537 (1989).
- "Wage Premiums for College Graduates: Recent Growth and Possible Explanations," with Finis Welch, 18 *Educational Researcher* 17 (1989).
- "Industrialization and the Big Push," with Andrei Shleifer and Robert W. Vishny, 97 *Journal of Political Economy* 1003 (1989).
- "Building Blocks of Market Clearing Business Cycle Models," with Andrei Shleifer and Robert W. Vishny, in <u>NBER Macroeconomic Annual</u>, pp. 247-87, ed. Olivier Jean Blanchard and Stanley Fischer. Cambridge, MA: MIT Press (1989).
- "Efficiency Wages Reconsidered: Theory and Evidence," with Robert H. Topel, in <u>Advances in the Theory and Measurement of Unemployment</u>, pp. 204-240. ed. Yoram Weiss and Gideon Fishelson. London: Macmillan, (1990).

- "Empirical Age-Earnings Profiles," with Finis Welch, 8 *Journal of Labor Economics* 202 (1990).
- "Human Capital, Fertility, and Economic Growth," with Gary S. Becker and Robert F. Tamura, 98 *Journal of Political Economy*, S12 (1990).
- "Accounting for the Slowdown in Black-White Wage Convergence," with Chinhui Juhn and Brooks Pierce, in <u>Workers and Their Wages: Changing Patterns in the United States</u>, pp. 107-143, ed. Marvin Kosters. Washington, D.C.: American Enterprise Institute (1991).
- "The Role of International Trade in Wage Differentials," with Finis Welch, in <u>Workers and Their Wages: Changing Patterns in the United States</u>, pp. 39-69, ed. Marvin Kosters. Washington, D.C.: American Enterprise Institute (1991).
- "Why Has the Natural Rate of Unemployment Increased over Time?" with Robert H. Topel and Chinhui Juhn, 2 *Brookings Papers on Economic Activity* 75 (1991).
- "The Allocation of Talent: Implications for Growth," with Andrei Shleifer and Robert W. Vishny, 106 *Quarterly Journal of Economics* 503 (1991).
- "Rational Addiction and the Effect of Price on Consumption," with Gary S. Becker and Michael Grossman, 81 *American Economic Review* 237 (1991).
- "Wages of College Graduates," in <u>The Economics of American Higher Education</u>, pp. 121-40, ed. William E. Becker and Darrell R. Lewis. Boston: Kluwer Academic Publishers (1992).
- "Changes in Relative Wages, 1963-1987: Supply and Demand Factors," with Lawrence F. Katz, 107 *Quarterly Journal of Economics* 35 (1992).
- "The Structure of Wages," with Finis Welch. 107 Quarterly Journal of Economics 285 (1992).
- "The Transition to a Market Economy: Pitfalls of Partial Planning Reform," with Andrei Shleifer and Robert W. Vishny, 107 *Quarterly Journal of Economics* 889 (1992).
- "The Division of Labor, Coordination Costs, and Knowledge," with Gary S. Becker, 107 *Quarterly Journal of Economics* 1137 (1992).
- "Industrial Change and the Rising Importance of Skill" with Finis Welch, in <u>Uneven Tides: Rising Inequality in America</u>, pp. 101-132, ed. Peter Gottschalk and Sheldon Danziger. New York: Russell Sage Foundation Publications (1993).
- "Wage Inequality and the Rise in Returns to Skill," with Chinhui Juhn and Brooks Pierce, 101 *Journal of Political Economy* 410 (1993).

- "Occupational Change and the Demand for Skill, 1940-1990," with Finis Welch, 83 *American Economic Review* 122 (1993).
- "Inequality and Relative Wages," with Finis Welch, 83 American Economic Review 104 (1993).
- "Why Is Rent-Seeking So Costly to Growth?" with Andrei Shleifer and Robert W. Vishny, 83 *American Economic Review* 409 (1993).
- "A Simple Theory of Advertising as a Good or Bad," with Gary S. Becker, 108 *Quarterly Journal of Economics* 941 (1993).
- "Relative Wages and Skill Demand, 1940-1990," with Chinhui Juhn, in <u>Labor Markets</u>, <u>Employment Policy</u>, and <u>Job Creation</u>, pp. 343-60, ed. Lewis C. Solmon and Alec R. Levenson. The Milken Institute Series in Economics and Education. Boulder, CO: Westview Press, (1994).
- "Cattle Cycles," with Sherwin Rosen and Jose A. Scheinkman, 102 *Journal of Political Economy* 468 (1994).
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- "Inequality in Labor Market Outcomes: Contrasting the 1980s and Earlier Decades," with Chinhui Juhn, 1 *Economic Policy Review* 26 (1995).
- "Employment and the 1990-91 Minimum Wage Hike," with Donald R. Deere and Finis Welch, 85 *American Economic Review* 232 (1995).
- "Examining the Evidence on Minimum Wages and Employment," with Donald R. Deere and Finis Welch, in <u>The Effects of the Minimum Wage on Employment</u>, pp. 26-54, ed. Marvin H. Kosters. Washington, D.C.: The AEI Press, (1996).
- "Social Status, Education, and Growth," with Chaim Fershtman and Yoram Weissm, 104 *Journal of Political Economy* 108 (1996).
- "Wage Inequality and Family Labor Supply," with Chinhui Juhn, 15 *Journal of Labor Economics* 72 (1997).
- "Quality and Trade," with Andrei Shleifer, 53 Journal of Development Economics 1 (1997).
- "Wage Inequality and Family Labor Supply," with Chinhui Juhn, 15 *Journal of Labor Economics* 72 (1997).
- "Vertical Integration as a Self-Enforcing Contractual Arrangement," with Benjamin Klein, 87 *American Economic Review* 415 (1997).

- "Unemployment and Nonemployment," with Robert H. Topel, 87 *American Economic Review* 295 (1997).
- "Wages, Skills, and Technology in the United States and Canada," with W. Craig Riddell and Paul M. Romen, in <u>General Purpose Technologies and Economic Growth</u>, pp. 283-309, ed. Elhanan Helpman. Cambridge, MA: M.I.T. Press, (1998).
- "Perspectives on the Social Security Crisis and Proposed Solutions," with Finis Welch, 88 American Economic Review 142 (1998).
- "Population and Economic Growth," with Gary S. Becker and Edward Glaeser, 89 *American Economic Review* 145 (1999).
- "A Competitive Perspective on Internet Explorer," with Steven J. Davis, 90 American Economic Review 184 (2000).
- "Industrial Change and the Demand for Skill" with Finis Welch, in <u>The Causes and Consequences of Increasing Inequality</u>, pp. 263-84, ed. Finis Welch. Volume II in the Bush School Series in the Economics of Public Policy. Chicago: University of Chicago Press, (2001).
- "Wage Differentials in the 1990s: Is the Glass Half Full or Half Empty?" with Finis Welch, in *The Causes and Consequences of Increasing Inequality*, pp. 341-64, ed. Finis Welch. Volume II in the Bush School Series in the Economics of Public Policy. Chicago: University of Chicago Press, (2001).
- "Economic Perspectives on Software Design: PC Operating Systems and Platforms," with Steven J. Davis and Jack MacCrisken, in Microsoft, Antitrust, and the New Economy: Selected Essays, pp. 361-420, ed. Davis S. Evans. Boston, MA: Kluwer, (2001).
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- "The Equilibrium Distribution of Income and the Market for Status," with Gary S. Becker and Iván Werning, 113 *Journal of Political Economy* 282 (2005).
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- "Social Value and the Speed of Innovation," with Robert H. Topel, 97 *American Economic Review* 433 (2007).
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- "Why Does Human Capital Need a Journal?" with Isaac Ehrlich, 1 *The Journal of Human Capital* 1 (Winter 2007).
- "Critical Loss Analysis in the *Whole Foods* Case" with Robert H. Topel, 3 (2) *GCP Magazine* (March 2008).
- "Exclusive Dealing Intensifies Competition for Distribution," with Benjamin Klein, Antitrust Law Journal, Vol. 75 (October 2008).
- "Fertility Decline, the Baby Boom and Economic Growth," with Curtis Simon and Robert Tamura, 2 *The Journal of Human Capital* 3 (Fall 2008).
- "The Market for College Graduates and the Worldwide Boom in Higher Education of Women" with Gary S. Becker and William H. J. Hubbard, 100 *American Economic Review: Papers & Proceedings* 229 (May 2010).

- "Explaining the Worldwide Boom in Higher Education of Women," with Gary S. Becker & William H. J. Hubbard," *Journal of Human Capital*, University of Chicago Press, vol. 4(3), 203 (2010).
- "How Exclusivity is Used to Intensify Competition for Distribution-Reply to Zenger," with Benjamin Klein, 77 Antitrust Law Journal No. 2 (2011).
- "Achieving Maximum Long-Run Growth," Federal Reserve Bank of Kansas City Proceedings of the Annual Jackson Hole Conference 2011.

#### **Selected Working Papers**

"Gauging the Economic Impact of September 11<sup>th</sup>," with Gary S. Becker, Unpublished Working Paper (October 2001).

"War In Iraq Versus Containment: Weighing the Costs," with Steven J. Davis and Robert H. Topel, *NBER Working Paper No.12092* (March 2006).

"Estimating the Effect of the Crack Epidemic," with Steve Levitt and Roland Fryer, Unpublished Working Paper (September 2006).

"The Interaction of Growth in Population and Income," with Gary S. Becker, Unpublished Working Paper (2006).

"Persuasion and Indoctrination," with Gary Becker (2007).

"The Value of Life Near Its End and Terminal Care," with Gary S. Becker and Tomas Philipson (2007).

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#### **Selected Comments**

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"Comment: Asking the Right Questions in the Medicare Reform Debate," <u>Medicare Reform: Issues and Answers</u>, pp. 175-81, ed. Andrew J. Rettenmaier and Thomas R. Saving. Chicago: University of Chicago Press (2000).

Comment on "Social Security and Demographic Uncertainty," by Henning Bohn in <u>Risk Aspects of Investment-Based Social Security Reform</u>, ed. John Y. Campbell and Martin Feldstein. Chicago: University of Chicago Press (2001.)

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#### **Popular Press Articles**

"The Education Gap Rap," The American Enterprise, (March-April 1990), pp. 62.

"Rethinking Antitrust," with Gary S. Becker, Wall Street Journal, (February 26, 2001) pp. pA22.

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"The Economics of NFL Team Ownership" with Robert H. Topel, report prepared at the request of the National Football League Players' Association. (January 2009).

#### **Articles About Murphy**

"Higher Learning Clearly Means Higher Earning," by Carol Kleiman. *Chicago Tribune*, March 12, 1989, Jobs Section pp. 1. Long article about "The Structure of Wages" with picture of Murphy.

"Why the Middle Class Is Anxious," by Louis S. Richman. *Fortune*, May 21, 1990, pp. 106. Extensive reference to Murphy's work on returns to education.

"Unequal Pay Widespread in U.S.," by Louis Uchitelle., New York Times, August 14, 1990, Business Day section pp. 1. Long piece on income inequality.

"One Study's Rags to Riches Is Another's Rut of Poverty," by Sylvia Nasar, *New York Times*, June 17, 1992, Business Section pp. 1. Long piece on the income inequality research.

"Nobels Pile Up for Chicago, but Is the Glory Gone?" by Sylvia Nasar, *New York Times* November 4, 1993, Business Section pp. 1. Long piece on Chicago School of economics. Featured a photo of five of the "brightest stars on the economics faculty" (including Murphy) and a paragraph about Murphy's research.

"This Sin Tax is Win-Win," by Christopher Farrell. *Business Week*, April 11, 1994, pp. 30. Commentary section refers to Murphy, Becker, and Grossman's work on rational addiction.

"Growing inequality and the economics of fragmentation," by David Warsh, *Boston Sunday Globe*, August 21, 1994, pp. A1. Two-page article with picture and biographical details about Murphy and his research; part of a series about "how the new generation replaced the old in economics."

"A Pay Raise's Impact," by Louis Uchitelle. *New York Times*, January 12, 1995, Business Section pp. 1. Article about consequences of proposed increase in the minimum wage. Articles featuring Murphy's comments on the minimum wage appeared in numerous other publications, including the *Chicago Tribune*; in addition, Murphy was interviewed on CNN (January 26, 1995).

"The Undereducated American," Wall Street Journal, August 19, 1996, pp. A12. Changes in the rate of returns to education.

"In Honor of Kevin M. Murphy: Winner of the John Bates Clark Medal," by Finis Welch, 14 *Journal of Economic Perspectives* 193 (2000).

#### Testimony, Reports, and Depositions (Last 4 Years)

Final Submission of Kevin M. Murphy, January 16, 2009, in the 2006 MSA Adjustment Proceeding.

Expert Report of Kevin M. Murphy, January 23, 2009, in the Matter of City of New York v. Amerada Hess Corp., et al., The United States District Court for the Southern District of New York. Report submitted on behalf of Citgo Petroleum Corporation.

Declaration of Kevin M. Murphy, January 29, 2009, in the Matter of Insignia Systems, Inc. v. News America Marketing In-Store, Inc., The United States District Court for the District of Minnesota.

Deposition of Kevin M. Murphy, February 10, 2009, in the Matter of Valassis Communications, Inc. v. News America Incorporated, a/k/a News America Marketing Group, News America FSI, Inc. a/k/a News America Marketing FSI, LLC and News America Marketing In-Store Services, Inc. a/a/a News American Marketing In-Store Services, LLC., The United States Third Circuit Court of Michigan Detroit Division. Case No. 07-706645.

Expert Report of Kevin M. Murphy, February 13, 2009, in the Matter of City of New York v. Amerada Hess Corp., et al., The United States District Court for the Southern District of New York. Report submitted on behalf of Citgo Petroleum Corporation regarding Citgo's share of total RFG supply at the New York Harbor.

Expert Report of Kevin M. Murphy, March 3, 2009, in the Matter of St. Francis Medical Center, on behalf of itself and all others similarly situated vs. C.R. Bard, Inc., The United States District Court for the Eastern District of Missouri Southeastern Division.

Deposition of Kevin M. Murphy, March 6, 2009, in the Matter of St. Francis Medical Center, on behalf of itself and all others similarly situated vs. C.R. Bard, Inc., The United States District Court for the Eastern District of Missouri Southeastern Division.

Expert Report of Kevin M. Murphy, March 17, 2009, in the Matter of ZF Meritor LLC and Meritor Transmission Corporation v. Eaton Corporation., The United States District Court of Delaware. Case No. 06-CV-623.

Deposition of Kevin M. Murphy, April 6, 2009, in the Matter of ZF Meritor LLC and Meritor Transmission Corporation v. Eaton Corporation., The United States District Court of Delaware. Case No. 06-CV-623.

Declaration of Kevin M. Murphy, April 16, 2009, in the Matter of Sun Microsystems, Inc., a California corporation v. Hynix Semiconductor Inc., et al., The United States District Court Northern District of California San Francisco Division.

Declaration of Kevin M. Murphy, April 23, 2009, in the Matter of Sun Microsystems, Inc., a California corporation v. Hynix Semiconductor Inc., a Korean corporation, Hynix Semiconductor America Inc., a California corporation, et al., The United States District Court Northern District of California San Francisco Division.

Expert Report of Kevin M. Murphy, May 11, 2009, in the Matter of Jim Hood, Attorney General ex rel State of Mississippi v. Microsoft Corporation., The Chancery Court of Hinds County First Judicial District.

Expert Report of Professor Kevin M. Murphy, June 12, 2009, in the Matter of CITGO Petroleum Corporation v. Ranger Enterprises, Inc., The United States District Court for the Western District of Wisconsin.

Expert Report of Kevin M. Murphy, June 24, 2009, in the Matter of Novell, Incorporated v. Microsoft Corporation., The United States District Court Northern District of Maryland.

Trial Testimony of Kevin M. Murphy, July 16, 2009, in the Matter of Valassis Communications, Inc. v. News America Incorporated, a/k/a News America Marketing Group, News America FSI, Inc. a/k/a News America Marketing FSI, LLC and News America Marketing In-Store Services, Inc. a/a/a News American Marketing In-Store Services, LLC., The United States Third Circuit Court of Michigan Detroit Division. Case No. 07-706645.

Declaration of Kevin M. Murphy, August 14, 2009, in the Matter of EBay Seller Antitrust Litigation, The United States District Court for the Northern District of California. Declaration submitted in support of defendant Ebay Inc.'s motion for summary judgment.

Expert Report of Kevin M. Murphy, August 21, 2009, in the Matter of Go Computer, Inc., and S. Jerrold Kaplan v. Microsoft Corporation., The Superior Court for the State of California for the City and County of San Francisco.

Deposition of Kevin M. Murphy, September 16, 2009, in the Matter of Novell, Incorporated v. Microsoft Corporation., The United States District Court Northern District of Maryland.

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Expert Report of Kevin M. Murphy, September 29, 2009, in the Matter of Motor Fuel Temperature Sales Litigation, The United States District Court of Kansas.

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Deposition of Kevin M. Murphy, October 26, 2009, in the Matter of Motor Fuel Temperature Sales Litigation, The United States District Court of Kansas.

Expert Report of Kevin M. Murphy, December 14, 2009, in the Matter of Payment Card Interchange Fee and Merchant Discount Antitrust Litigation, The United States District Court for the Eastern District of New York.

Supplemental Expert Report of Kevin M. Murphy, December 21, 2009, in the Matter of Valassis Communications, Inc. v. News America Incorporated, a/k/a News America Marketing Group, News America FSI, Inc. a/k/a News America Marketing FSI, LLC and News America Marketing In-Store Services, Inc. a/a/a News American Marketing In-Store Services, LLC., The United States Third Circuit Court of Michigan Detroit Division. Case No. 07-706645.

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Declaration of Kevin M. Murphy, January 28, 2010, in the Matter of Automobile Antitrust Cases I and II., The United States Superior Court of the State of California for the County of San Francisco.

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### **Appendix D**

#### **Materials Relied Upon**

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